

## SEQUENCE LISTING

<110> Xu, Jiangchun  
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C19

<140> US

<141> 2000-09-06

<160> 877

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 1

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ccaggggggtc	cagtcctct	ccttacttca	tccccatccc	atgccaaagg	aagaccctcc	180
ctccttggtc	cacagccttc	tctaggcttc	ccagtgcctc	caggacagag	tgggttatgt	240
tttcagctcc	atccttgctg	tgagtgtctg	gtgctgtgtg	cctccagctt	ctgctcagtg	300
cttcatggac	agtgtccagc	acatgtcact	ctccactctc	tcagtgtgga	tccactagtt	360
ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggt	cccttttagtg	agggttaatt	420
gcgcgcttgg	cgtaatcatg	gtcataactg	tttcctgtgt	gaaattgtta	tccgctcaca	480

009060" 6 2 2 5 9 5 0

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attccacaca acatacgagc cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg      540
anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg      600
tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttgggggc      660
tcttccgctt ctgcgtcaact nantcctgcg ctcggtcntt cggetgcggg gaacgggtatc      720
actcctcaaa ggnggtatta cggttatccn naaatcnggg gataccngg aaaaaanttt      780
aacaaaaggg cancaaaggg cngaaacgta aaaa                                814

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<210> 2
<211> 816
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

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<400> 2
acagaaatgt tggatggtgg agcacctttc tatacgactt acaggacagc agatggggaa      60
ttcatggctg ttggagcaat agaacccag ttctacgagc tgctgatcaa aggacttgga      120
ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag      180
aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc      240
acagatgctt gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac      300
aaggaacggg gctcgtttat caccagttag gagcaggacg tgagcccccg cctgcacct      360
ctgctgttaa acaccccgag catcccttct ttcaaaaggg atccactagt tctagaagcg      420
gccgccaccg cgggtggagct ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt      480
ggcgtaatca tgggtcatagc tgtttctctg gtgaaattgt tatccgctca caattccccc      540
aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn      600
cattaattgc gttgcgctca ctgcccgtt tccagtcggg aaaactgtcg tgccactgcn      660
ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc      720
tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcact cctcaaaggc      780
ggtntnccgg ttatccccaa acnggggata ccnnga                                816

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<210> 3
<211> 773
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

```

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<400> 3
cttttgaaag aagggatggc tgggggtgttt aacagcagag gtgcagggcg ggggctcacg      60
tcttgctcct cactgggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc      120
tctcaaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac      180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca      240
tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc      300
tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa      360
gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccgggtac      420
ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgctcgt ttacaacgct      480
gtgactggga aaaccctggg cgttaccaac ttaatcgctt tgcagacat ccccttttcg      540
ccagctgggc gtaatanaga aaaggcccgc accgatcgcc cttccaacag ttgcgcacct      600

```

```

gaatgggnaa atgggacccc cctgttacog cgcattnaac ccccgcnnggg tttngttgtt 660
acccccacnt nnaccgctta cactttgcca ggcgcttanc gcccgctccc tttcnccttt 720
cttcccttcc tttcncncncn ctttcccccg ggggtttcccc cntcaaacc cna 773

```

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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

```

```

<400> 4
cctcctgagt cctactgacc tgtgctttct ggtgtggagt ccagggctgc taggaaaagg 60
aatgggcaga cacaggtgta tgccaatgtt tctgaaatgg gtataatttc gtcctctcct 120
tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag 180
acgtgggtga ccatgttgtt tgtgggggtgc agagatggga ggggtggggc ccaccctgga 240
agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt cccttttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaaacata aantgtaaag ctgggggtgcc taatgantga 600
ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgcttcc cncctcantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc 780
accnctcca aaggggggtat tccggtttcc ccnaatccgg gganancc 828

```

```

<210> 5
<211> 834
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

```

```

<400> 5
tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatgtt 120
attttataac aatcaacacc tgtggctttt aaaatttggg tttcataaga taattttatc 180
tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggc cactccaagc ttggcagtta 240
acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat 480
tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttgggtgtgc 600
ttattttaaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
gatattggtc atttttacca gcttctaaat ctnaactttc aggtttttga actggaacat 720
tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780

```

834

<400> 6

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<210> 7
<211> 817
<212> DNA
<213> Homo sapien
```

<400> 7

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cgggccctat	ttcaaagatt	tttaggggaa	ttaattctag	gacgatgggt	atgaaactgt	120
ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gtttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagt	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggt	gttctcctag	gttcaataacc	420
attgggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
aggatncctt	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
tcaaacngtc	tctanttcct	gaaacgctctg	aaatgttaata	aanaattaan	tttngttatt	600
gaatntttnng	gaaaagggct	tacaggacta	gaaaccaaata	angaaaanta	atnntaangg	660
cnttatcntn	aaaggtgnata	acncttccta	tnatcccacc	caatngnatt	ccccacncnn	720
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cttnantgan	ggttattcnc	ccctngcntt	atcance			817



<210> 8  
 <211> 799  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (799)  
 <223> n = A,T,C or G

<400> 8  
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 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120  
 ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag 180  
 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240  
 tgggtggccg angcctganc cgctctgcct tgctgcccc angtgggccg ccacccctg 300  
 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacangg 360  
 ggattttgct cctanantaa ggctcatctg ggctcggcc ccccacctg gttggccttg 420  
 tctttgangt gagccccatg tccatctggg ccaactgtcng gaccaccttt ngggagtgtt 480  
 ctctttacaa ccacannatg cccggctcct cccggaaacc antccancc tgngaaggat 540  
 caagnccctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt 600  
 tccttttctnt tnaggggttaa tnnccgcttg gccttnccan ngctcctncnc nttttccnnt 660  
 gttnaaattg ttangcnccc nccnntcccn cnnccnnan cccgaccenn annttnnann 720  
 nctgggggt nccnncgat tgaccenncc nccctntant tgcnttnggg nncnntgccc 780  
 ctttccctct nggganncg 799

<210> 9  
 <211> 801  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (801)  
 <223> n = A,T,C or G

<400> 9  
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 caaggacaag gccaccaggt gcgggggccc aagcccacat gatccttact ctatgagcaa 180  
 aatccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggaccang 240  
 caggtcatgg ggttgtnngc caactggggg ccncaacgca aaanggcna gggcctcngn 300  
 caccatccc angacgcggc tacactnctg gacctccnc tccaccactt tcatgcgctg 360  
 ttontacccg cgnatntgtc ccantgttt cngtgccnac tccancttct nggacgtgcg 420  
 ctacatacgc ccggantcnc nctcccgtt tgctccatc cacgtncan caacaaattt 480  
 cncntantg caccnattcc cacntttnc agntttccnc nncngcttc cttntaaaag 540  
 ggttganccc cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata 600  
 getgaantcc ccatnaccnn gnctcnatgg anccntccnt tttaannacn ttctnaactt 660  
 gggaanance ctgcncntn ccccnttaa tccncccttg cnangnnent ccccnntcc 720  
 nccnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnnn cctcanttcg 780  
 ccancctcg aaatcgccn c

<210> 10  
 <211> 789

<212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(789)  
 <223> n = A,T,C or G

<400> 10  
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 acagtgtggc cgtggtgaca gcttcagccg cccctcaccgg gttcaccttc tcagccctgc 120  
 agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggtg ttccctgccc 180  
 aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttccctgc 240  
 caggccctaa gcctggagct cccttcccta atggacacgt ggggtgctgga ggcagtggcc 300  
 tgctcccacc tccaccccgcg ctctgcgggg cctctgcctg tgatgtctcc gtacgtgtgg 360  
 tgggtgggtga gcccaccgan gccagggtgg ttccggggcg gggcatctgc ctggacctcg 420  
 ccatectgga tagtgcttcc tgctgtccca ngtggcccca tccctgttta tgggtcccat 480  
 tgtccagctc agccagtctg tcaactgcta tatggtgtct gccgcaggcc tgggtctggt 540  
 cccatttact ttgtacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600  
 ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660  
 tctgtttaac cccatggggc tgccggcttg gccgccatt tctgttgcct ccaaantnat 720  
 gtggctctct gctgccacct gttgctggct gaagtgenta cngcncanct nggggggtng 780  
 ggngttccc 789

<210> 11  
 <211> 772  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(772)  
 <223> n = A,T,C or G

<400> 11  
 cccaccctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60  
 tttgttaaat aaataagtta aatatttaaa tgccctgtgtc tctgtgatgg caacagaagg 120  
 accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180  
 tgtgggctga ggggacctgg ttcttgtgtg ttgcccctca ggactcttcc cctacaaata 240  
 actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag 300  
 ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360  
 tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420  
 ctgagcctgg gtaatccacc tgcagagtcc ccgcattcca gtgcatggaa cccttctggc 480  
 ctccctgtat aagtccagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana 540  
 aactggggaa aaaagaaaag gacgccccan cccccagctg tgcanctacg cacctcaaca 600  
 gcacaggggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660  
 accccggcac cccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720  
 ggcccncac ccnaatntt gctgggaaat ttttctccc ctaaattntt tc 772

<210> 12  
 <211> 751  
 <212> DNA  
 <213> Homo sapien

<400> 12

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<210> 13
<211> 729
<212> DNA
<213> Homo sapien
```

<400> 13

```
<210> 14
<211> 816
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(816)  
<223> n = A,T,C or G
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```

gccccaatc cagctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tacttttttg tctgtgagcct tttgcttggt gcaggtttca    120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg    180
aagtaggggt agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc    240
atggtggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca    300
ggcactacca gcaacgtcag gaagtgtca gccattgttg tgtacacca ggcgaccaca    360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca    420
cacttgctct cctcttagc accatagcag ccangaaaac caagagcaaa gaccacaacg    480
cngctgcga atgaaagaaa ntaccacgt tgacaaactg catggccact ggacgacagt    540
tggcccgaa atcttcagaa aagggatgcc ccacogattg aacaccana tgcccactgc    600
cnacagggct gcnccnccn gaaagaatga gccattgaag aaggatcttc ntggctctta    660
tgaactgaaa ccttgcattg tggccctgt tcagggctct tggcagtga ttctganaaa    720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgcc ctgaattggc    780
ggccaaggan ccctgccccn g                                     801

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```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgccctgcca ctgagtggca acacccggga gctgttttgt      60
cctttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg    120
agccaccatg cagtgtttca gtttcattaa gaccatgatg atcctcttca atttgctcat    180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc    240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta    300
cttctcatc gcagccggcg ttgtggtctt tgctcttggt ttcttgggct gctatgggtgc    360
taagacggag agcaagtgtg ccctcgtgac gttcttcttc atcctctctc tcctcttcat    420
tgctgaagtt gcagctgctg tggtcgcctt ggtgtacacc acaatggctg aaccattcct    480
gacgttgctg gtantgcctg ccatcaanaa agattatggg ttcccaggaa aaattcactc    540
aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg    600
gaattttgaa agantcnccc tacttccaaa aaaaaanant tgcctttnc cccnttctgt    660
tgcaatgaaa acntccaan acngccaatn aaaacctgcc cnnncaaaaa ggntcncaaa    720
caaaaaaant mnaagggttn                                     740

```

```

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (802)
<223> n = A,T,C or G

```

```

<400> 18
ccgctgggtg cgctgggtcca gngnagccac gaagcacgtc agcatacaca gcctcaatca      60
caaggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg    120
ggatacactt tacttttagca gccagggtga caactgagag gtgtcgaagc ttattcttct    180

```





```

nccctcnenc ngncgnannc ctcncncnc gtctcannca ccaccccgcc ccgccaggcc 660
ntcanccacn ggnngacnng nagnncnntc gcnccgcgcn gcgnncnccct cgcncncgaa 720
ctnctcngg ccantnncgc tcaanccnna cnaaacgcgc ctgcgcggcc cgnagcgncc 780
ncctccncca gtcctcccgnc ctcccnaccc angnnttcen cgaggacacn nnaccccgcc 840
nncangcgg

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcaaaacta tacttcgctc gnactcgtgc gcctcgtcnc tcttttctct cgcaaccatg 60
tctgacnanc cccgattnggc ngatatcnan aagntcganc agtccaaact gantaacaca 120
cacacnncan aganaaatcc nctgccttcc anagtanaen attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgcgcgca atntgtcncc gtttatntn ccagctcnc 240
ctnccncccc taentcttcn nagctgtcnn acccctngtn cgnaccccc naggtcgga 300
tcgggtttnn nntgaccgng cncccccctc cccctccat nacganccnc ccgcaccacc 360
nanngcnccg nccccgnnet ctgcgcncnc ctgtcctntn cccctgtngc ctggcncngn 420
accgcattga cccctgcenn ctncnngaaa ncgnanacgt ccgggttggn annancgctg 480
tggnnnngcg tctgcnccgc gttccttcen ncncttcca ccatcttct tacngggtct 540
ccnccctc ctnnncacnc cctgggacgc tntcctntgc ccccttnac tccccctt 600
cgnctgncc cgnccccacc ntcatttnca nacgntcttc acaannccct ggntnnctcc 660
cnancngnnc gtcancnag ggaagggngg ggnncnntg nttgacgttg ngngangtc 720
cgaanantcc tcnccntcan cncaccctc cgggcgnnet ctngttnc aacttancaa 780
ntctcccccg ngngcnctc tcagcctcnc cnccccnct ctctgcantg tncctctctc 840
tnaccnntac gantnttcgn cncctcttt cc 872

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```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcattgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtcnta 60
nctgncttcc tgtgtcaaact gtatacnaen tanatatgaa tctnatntga caaganngta 120
tctnccatta gtaacaantg tntgtccat cctgtengan canattccca tnnatnccn 180
cgcattcnnc gncantatn taatngggaa ncnntnnnn ncaccnncat ctatctncc 240
gnccttgac tggagagat ggatnattc tntntgacc nacatgttca tcttgattn 300
aanaccccc cgcngnccac cggttngng cngcncntc ccaagacctc ctgtggaggt 360
aacctgcgtc aganncatca aacntgggaa accgcncnc angtnnaagt ngnnncanan 420
gatcccgctc agnnttnacc atcccttnc agcgcncctc ttngtgcctt anagnnagc 480
gtgtccnanc cncatcaat ganacgcgc agnccnccg caattnggca caatgtcgc 540
gaacccccca ggggggntna tncaaancc caggattgtc cncncangaa atcccnanc 600

```



```
<210> 25
<211> 775
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 26
<211> 820
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G
```

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgtctt	gaccaagagc	tgctgggcac	atttcctgca	120
gaaaaggtgg	cggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcggtgggg	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgtctc	aagtgcaccc	360
ttcctacctg	acnaccagn	accnnnaact	gcngcctggg	gacagcnctg	ggancagcta	420
acnnagcact	cacctgcccc	cccattggccg	tncgctcccc	tggtcctgnc	aagggaagct	480
ccctgttgga	attncgggga	naccaaggga	nccccctcct	ccanctgtga	agggaaaann	540
gatggaattt	tncccttccg	gcnnttcccc	tcttccttta	cacgccccct	ntactctntc	600
tcctctctnt	ntcctgnenc	acttttnacc	ccnnnatctc	ccttnattga	tcggannctn	660
ganattccac	tnncgcctnc	cntcnatcng	naanacnaaa	nactntctna	cccnggggat	720
gggnncctcg	ntcactctct	ctttttcnct	accnccnntt	ctttgcctct	ccttngatca	780



<210> 31  
<211> 799  
<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(799)

<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggagg	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggtg	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	ccntcnaaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccc	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatnccn	cctgaangcg	ccaagttgaa	aggccacgcc	gtneccnctc	cccatagnan	600
nttttnnct	canctaatac	ccccccnggc	aacnatccaa	ccccccccc	tggggggccc	660
agcccanggc	ccccgncctg	ggnnnccngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgacgcga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnnnnc	780
ctcgcccccc	ccnnccgngg					799

<210> 32

<211> 789

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(789)

<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttccnag	ggcagggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcgggc	gcggcgggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgc	tgatnttcc	ctgcagctgc	aggatgcct	aaaacagggc	ctcgccctn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggtnnta	ccnccnccg	ttggcncact	ccccntggaa	accacttntc	360
gcggctccgg	catctgggtc	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgtcgcnatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagtcc	ttngggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaatact	ccccccgntt	nctgggtttg	ggaacccacg	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcgggccc	cccggtgggc	ccnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nnngnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccnccg						789

<210> 33

<211> 793

<212> DNA

<213> Homo sapien

005050" 6225950

<220>  
 <221> misc\_feature  
 <222> (1)...(793)  
 <223> n = A,T,C or G

<400> 33  
 gacagaacat gttggatggt ggagcacctt tctatacgac ttacaggaca gcagatgggg 60  
 aattcatggc tgttggagca atanaacccc agttctacga gctgctgac aaaggacttg 120  
 gactaaagtc tgatgaactt cccaatcaga tgagcatgga tgattggcca gaaatgaana 180  
 agaagtttgc agatgtatth gcaaagaaga cgaaggcaga gtggtgtcaa atctttgacg 240  
 gcacagatgc ctgtgtgact ccggttctga cttttgagga ggttggtcat catgatcaca 300  
 acaangaacg gggctcgttt atcaccantg aggagcagga cgtgagcccc cgccctgcac 360  
 ctctgctgtt aaacaccccc gccatccctt ctttcaaaag ggatccacta cttctagagc 420  
 ggnccgccacc gcggtggagc tccagctttt gttcccttta gtgagggtta attgcgcgct 480  
 tggcgtaatc atggtcatan ctgtttcctg tgtgaaattg ttatccgctc acaattccac 540  
 acaacatacg anccggaagc atnaaatttt aaagcctggn ggtngcctaa tgantgaact 600  
 nactcacatt aattggcttt gcgctcactg cccgctttcc agtccggaaa acctgtcctt 660  
 gccagctgcc nttaatgaat cnggccacc cccggggaaa aggcngtttg cttnttgggg 720  
 cgccttccc gctttctcgc ttctgaant ccttcccccc ggtctttcgg cttgcggcna 780  
 acggtatcna cct 793

<210> 34  
 <211> 756  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(756)  
 <223> n = A,T,C or G

<400> 34  
 gccgcgaccg gcatgtacga gcaactcaag ggcgagtgga accgtaaaag ccccaatctt 60  
 ancaagtgcg ggggaanagct gggctgactc aagctagtgc ttctggagct caacttcttg 120  
 ccaaccacag ggaccaagct gaccaaacag cagctaattc tggcccgta catactggag 180  
 atcggggccc aatggagcat cctacgcaan gacatcccc ccttcgagcg ctacatggcc 240  
 cagctcaaat gctactactt tgattacaan gagcagctcc ccgagtcagc ctatatgcac 300  
 cagctcttg gctcaacct cctcttctg ctgtcccaga accgggtggc tgantnccac 360  
 acgganttg ancggtgcc tgcccanga catacanacc aatgtctaca tcnaccacca 420  
 gtgtcctgga gcaatactga tgganggcag ctaccncaa gtnttcttg ccnagggtta 480  
 catccccgc cgagagctac accttcttca ttgacatcct gctcgacact atcagggatg 540  
 aaaatcgcn ggttgctcca gaaaggctnc aanaanatcc ttttctctga agggccccgg 600  
 atnctagt nctagaatcg gcccgccatc gcggtgganc ctccaacctt tcgttncct 660  
 ttaactgagg ttnattgcc cccttggcgt tatcatggtc acncngttn cctgtgttga 720  
 aattnttaac cccccacaat tccagcna cattn 756

<210> 35  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(834)

<223> n = A,T,C or G

<400> 35

```

ggggatctct anactnacct gnatgcatgg ttgtcggtgt ggtecgctgtc gatgaanatg      60
aacaggatct tgccttgaa gctctcggt gctgtnttta agttgctcag tctgccgtca      120
tagtcagaca cncctctggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggg tgtgtntgat      240
aaantccanc angttctcct tgggtgacctc cccttcaaag ttgttcgggc cttcatcaaa      300
cttctnnaan angannanc canctttgtc gagctggnat ttgganaaca cgtcactgtt      360
ggaaactgat cccaaatggg atgtcatcca tcgctctgtc tgcttgcaaa aaacttgctt      420
ggcncaaata cgactccccc tccttgaaag aagccnatca cccccctc cctggactcc      480
nncaangact ctnccgctnc cccntccng cagggttggg ggcanncgg gccntgcgc      540
ttcttcagcc agttcacnat ntcatcagc ccctctgcca gctgtntat tccttggggg      600
ggaanccgtc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gcntcnccnt      660
acntnctggg cggggttcaa antccctccn ttgncnntcn cctcgggcca ttctggattt      720
nccnaacttt tctcttcccc cncccnccgg ngtttggnnt tttcatnggg ccccaactct      780
gctnttggcc antcccttgg gggcntntan cncccctnt ggtcccntng ggcc      834

```

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

```

cggncgcttt ccngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcca      120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tgggtctctcc acccctgta      180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgccaccg cagcctggca      300
ctaaaacanc ccagcgtcct cttctgcttg ganaaatatt ctttgcctt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttcccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
aggggangtc ntttncagtg gatctgcca anantaccn tatcatcnnt gaataaaaag      540
gcccctgaac ganatgcttc cancancctt taagaccat aatcctngaa ccatggtgcc      600
cttcgggtct gatccnaaag gaatgttctt ggggtccant cctcctttg ttncttacgt      660
tgtnttggac cctgctngn atnaccnaan tganatcccc ngaagcacc tnccttggc      720
atgtganttt cntaaattct ctgccctacn nctgaaagca cnattccctn ggcncnnaan      780
ggngaactca agaaggtctn ngaaaaacca cncn      814

```

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(760)

<223> n = A,T,C or G

009060 "5225960

```

tttttttttt tttttctttg ctcacattta atttttattt tgattttttt taatgctgca      60
caacacaata tttatttcat ttgtttcttt tatttcattt tatttgtttg ctgctgctgt      120
tttattttatt tttactgaaa gtgagagggg acttttgtgg ccttttttcc tttttctgta      180

```

```

ggcgcgctta agcttttctaa atttggaaca tctaagcaag ctgaanggaa aaggggggttt 240
cgcaaaatca ctcggggggaa nggaaagggtt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgetnaangc ttttaattana 360
cttggggggtt ccctcccccac accaacccecn ctgacaaaaa gtgccngccc tcaaatnatg 420
tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntccccncnc caggtnaaaa 480
tgaagggtta ccatntttta cncacacctc acntggcnnn gectgaatcc tcnaaaancn 540
ccctcaancn aattnctnng ccccggtcnc gcntnngtcc cncccgggct cggggaantn 600
cacccccnga anncnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc 660
cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacncgnnc cnnaaaatgn 720
nnnnncctc cncnngtcn naatnccan c 751

```

```

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (753)
<223> n = A,T,C or G

```

```

<400> 40
gtggtathtt ctgtaagatc aggtgttctt ccctcgtagg tttagaggaa acaccctcat 60
agatgaaaac ccccccgaga cagcagcact gcaactgcc aagcagccggg gtaggagggg 120
cgccctatgc acagctgggc ccttgagaca gcagggtctt gatgtcaggc tcgatgtcaa 180
tgggtctggaa gggcgggctg tacctgcgta ggggcacacc gtcagggcc accaggaact 240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttgggggt 300
cggtcataaan cgcggtggcg tcgtcgctgg gagctggcag ggccctccgc aggaaggcna 360
ataaaagggt cgcccccgca ccgttcancn cgcacttctc naanaccatg angttgggct 420
cnaaccacc accannccgg acttccttga nggaattccc aaatctcttc gntcttgggc 480
ttctnctgat gccctancn gttgcccnng atgccaanca nccccancc cgggggtcct 540
aaanacccn cctctcntt tcatctgggt tnttntcccc ggaccttggg tctctcaag 600
ggancccata tctcnaccn tactcacnt nccccccnt gnnacccanc cttctanngn 660
tcccncccg ncctctggcc cntcaaanan gcttnacna cctgggtctg ccttcccccc 720
tnccctatct gnaccccn n tttgtctcan tnt 753

```

```

<210> 41
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 41
actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt 60
agtgaaccca tccttgattt atatacatat atgttctcag tattttggga gcctttccac 120
ttcttttaaac cttgttcatt atgaacactg aaaataggaa tttgtgaaga gttaaaaagt 180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttgag 240
tgttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat 300
ttttactttt tgattaattg tgttttatat attagggtag t 341

```

```

<210> 42
<211> 101
<212> DNA
<213> Homo sapien

```





<210> 46  
 <211> 590  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(590)  
 <223> n = A,T,C or G

<400> 46  
 acctttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atgggtgtgta 60  
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120  
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180  
 tgantataac taattgacaa tggaaaatca attttaaatgt gaattgcaca ttatccttta 240  
 aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat 300  
 caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanac 360  
 ttacaatggc tttaatgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc 420  
 tgggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag 480  
 ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540  
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47  
 <211> 774  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(774)  
 <223> n = A,T,C or G

<400> 47  
 acaagggggc ataataagg agtggggana gatttttaaag aaggaaaaaa aacgaggccc 60  
 tgaacagaat tttcctgnac aacggggcctt caaaataatt ttcttgggga ggttcaagac 120  
 gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180  
 cattacagac gggactcttg gaggaaggat aaacagaaag gggacaaagg ctaatcccaa 240  
 aacatcaaag aaaggaaggt ggcgtcatac ctcccagcct acacagttct ccagggtctt 300  
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg 360  
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtgat cctgcgtggc 420  
 ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctcctatt 480  
 cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc 540  
 acggcatggg aagcctttct gacttgctg attactccag catcttggaa caatccctga 600  
 ttccccactc cttagaggca agataggggtg gttaagagta gggctggacc acttggagcc 660  
 aggtgctggt cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct 720  
 tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt 774

<210> 48  
 <211> 124  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1) ... (124)  
 <223> n = A,T,C or G

<400> 48  
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60  
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120  
 tggt 124

<210> 49  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (147)  
 <223> n = A,T,C or G

<400> 49  
 gccgatgcta ctatttttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60  
 tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120  
 ttagggcacc catatcccaa gcantgt 147

<210> 50  
 <211> 107  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatattgc 60  
 atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gtctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60  
 cgggaaggaa aggcagagaa gtgacaccgt caggggggaaa tgacagaaag gaaaatcaag 120  
 gccttgcaag gtcagaaagg ggactcaggg ctccaccac agccctgccc cacttgcca 180  
 cctccctttt gggaccagca atgt 204

<210> 52  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (491)  
 <223> n = A,T,C or G

009050 "6225950

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<400> 52
acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta      60
gggtattttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaaca      120
ccatcagaca ggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa      180
aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt      240
tcanaaacac ttcctcaaaa attttcaana tggtagcttt canatgtncc ctcagtccca      300
atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc      360
atgcaacagt gtcttttctt tnccttttct tttttttttt ttacaggcac agaaactcat      420
caattttatt tggataacaa agggctctcca aatttatattg aaaaataaat ccaagttaat      480
atcactcttg t

```

```

<210> 53
<211> 484
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = A,T,C or G

```

```

<400> 53
acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga      60
gtattaacag ttgctgaagt ttgggtattt tatgcagcat tttctttttg ctttgataac      120
actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct      180
caatcaaatt tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct      240
gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc      300
agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct      360
aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncc      420
tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc      480
cant

```

```

<210> 54
<211> 151
<212> DNA
<213> Homo sapien

```

```

<400> 54
actaaacctc gtgcttggtga actccatata gaaaacggtg ccatccctga acacggctgg      60
ccactgggta tactgctgac aaccgcaaca aaaaaaacac aaatccttgg cactggctag      120
tctatgtcct ctcaagtgcc tttttgtttg t

```

```

<210> 55
<211> 91
<212> DNA
<213> Homo sapien

```

```

<400> 55
acctggcttg tctccgggtg gttcccggcg cccccacgg tccccagaac ggacactttc      60
gccctccagt ggatactcga gccaaagtgg t

```

```

<210> 56
<211> 133
<212> DNA

```



<213> Homo sapien

<400> 60

accgtgggtg ctttctacat tcttgacggc tcttccacca acatctggtt ctacttcggc	60
gtcgtgggt ctttctctt cctctcctc cagctgggtg tgctcatcga ctttgccgac	120
tcttggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccgtgc ctggt	175

<210> 61

<211> 154

<212> DNA

<213> Homo sapien

<400> 61

accccacttt tcttctgtg agcagtcctg acttctcact gctacatgat gaggggtgagt	60
ggttgttgct cttcaacagt atctctccct ttccggatct gctgagccgg acagcagtgc	120
tggactgcac agccccgggg ctccacattg ctgt	154

<210> 62

<211> 30

<212> DNA

<213> Homo sapien

<400> 62

cgctcgagcc ctatagtgcg tcgtattaga	30
----------------------------------	----

<210> 63

<211> 89

<212> DNA

<213> Homo sapien

<400> 63

acaagtcatt tcagcacctt ttgctcttca aaactgacca tcttttatat ttaatgcttc	60
ctgtatgaat aaaaatggtt atgtcaagt	89

<210> 64

<211> 97

<212> DNA

<213> Homo sapien

<400> 64

accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag	60
aatcagtgca tccaggattg gtccttgat ctgggggt	97

<210> 65

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 65

005060"5225960

```

acaacaanaa ntcccttctt taggccaactg atggaaacct ggaacccctt tttgatggca      60
gcatggcgctc ctaggccttg acacagcggc tgggggtttgg gctntcccaa accgcacacc      120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggt      180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa      240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg      300
tgggggtgaa ctaccccan gaggaatcat gctggggcga tgcaanggtg ccaacaggag      360
gggcgggagg agcatgt                                     377

```

```

<210> 66
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 66
acgccttttc ctcagaattc agggaagaga ctgtcgctcg ccttcctccg ttgttgcgctg      60
agaaccogtg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg      120
aggaaactaac tgcaccttg tctctcccc agtccccagt tcacctcca tccctcacct      180
tctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt      240
ttatatattt ttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac      300
tgttt                                     305

```

```

<210> 67
<211> 385
<212> DNA
<213> Homo sapien

```

```

<400> 67
actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga      60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc      120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc      180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tctttagagg      240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg      300
cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac      360
catagtttct gtgctagtgg accgt                                     385

```

```

<210> 68
<211> 73
<212> DNA
<213> Homo sapien

```

```

<400> 68
acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa      60
gttttttttaa tgg                                     73

```

```

<210> 69
<211> 536
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

&lt;400&gt; 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
ccgggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcaact	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagagggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagtccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

&lt;210&gt; 70

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 70

atgaccccta	acaggggccc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcaactccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatagc	ggataatcct	atctattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggaggggc	300
actggccccc	aacaggcatc	accccgctaa	atccccctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

&lt;210&gt; 71

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (533)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattgggtta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

&lt;210&gt; 72

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

009060" 15225960



<222> (1)...(511)  
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganacgc	cgtggctatt	cctcattggt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actgggtgcc	gtaccagtag	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggt	ggagctgggtg	ccagcaccag	tggcagctct	ggtgctgtg	gtttctccta	180
caagttagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgtttta	accgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccngtgcct	tccttgaccc	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaaat					499

<210> 74  
 <211> 537  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(537)  
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatcaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattccttgac	ttatattttg	aatgggttct	420
actgaaaaan	gaatgatata	ttcttgaaga	catcgatata	catttatatta	caactcttgat	480

tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtccccgt 537

<210> 75  
 <211> 467  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(467)  
 <223> n = A,T,C or G

<400> 75  
 caaanacaat tgttcaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60  
 tgcataattac acgtacctcc tcctgctcct caagtagtgt ggtctatttt gccatcatca 120  
 cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180  
 tggcacaagg aggccatctt ttctcatcg gttattgtcc ctagaagcgt cttctgagga 240  
 tctagtggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300  
 tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360  
 caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420  
 ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccttgn 467

<210> 76  
 <211> 400  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(400)  
 <223> n = A,T,C or G

<400> 76  
 aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgctac 60  
 tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc 120  
 atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg tttcatccat 180  
 ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240  
 acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccca 300  
 ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360  
 tttagtggga tccanacatg taagcagcan catgggaggt 400

<210> 77  
 <211> 248  
 <212> DNA  
 <213> Homo sapien

<400> 77  
 ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcaccttc tgaggcacct 60  
 ccagctgcc cggcggggga tgcgaggctc ggagaccctc tgcccggctg tgattgctgc 120  
 caggcactgt tcattctcagc ttttctgtcc ctttgcctcc ggcaagcgt tctgctgaaa 180  
 gttcatatct ggagcctgat gtcttaacga ataaaggctc catgctccac ccgaaaaaaa 240  
 aaaaaaaa 248

<210> 78

<400> 78

```
<210> 79
<211> 552
<212> DNA
<213> Homo sapien
```

<400> 79

```
<210> 80
<211> 476
<212> DNA
<213> Homo sapien
```

<400> 80

$$\begin{aligned} \langle 210 \rangle & 81 \\ \langle 211 \rangle & 232 \end{aligned}$$

<400>	83						
accgaattgg	gaccgctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca		60
gggagatcga	gtctatacgc	tgaagaaatt	tgacccgatg	ggacaacaga	cctgctcagc		120
ccatcctgct	cggttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa		180
acgcttcaag	gtgctcatga	cccagcaacc	gcgccctgtc	ctctgagggg	ccttaaactg		240
atgtcttttc	tgccacctgt	taccctctcg	agactccgta	accaaactct	tgggactgtg		300
agccctgatg	cctttttgcc	agccatactc	tttggcntcc	agtctctcgt	ggcgattgat		360
tatgcttgtg	tgaggcaate	atggtggcat	caccatnaa	gggaacacat	ttganttttt		420
tttcncatat	tttaaattac	naccagaata	nttcagaata	aatgaattga	aaaactctta		480
aaaaaaaaaa	aaaa						494

<210> 84  
 <211> 380  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 84  
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60  
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120  
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180  
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg 240  
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300  
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360  
 agcgttncgg cctcatccgg 380

<210> 85  
 <211> 481  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(481)  
 <223> n = A,T,C or G

<400> 85  
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60  
 tnccatcgtc atactgtagg tttgccacca cctcctgcat cttggggcgg ctaatatcca 120  
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180  
 tgtgaaagga tctccagaag gagtgctcga tcttccccac actttttagt actttattga 240  
 gtgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc 300  
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggt gnagtctcac 360  
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420  
 aaagaacacc tcctggaagt gctngccgct cctcgctcct tgggtggngc gcntnccttt 480  
 t 481

<210> 86  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(472)  
 <223> n = A,T,C or G

<400> 86  
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60  
 acttggaana gcaacttnaa gcctggacac tggattataa attcacaata tgcaaacatt 120  
 taaacagtgt gtcaatctgc tccettactt tgtcatcacc agtctgggaa taagggtatg 180

```
<210> 87
<211> 413
<212> DNA
<213> Homo sapien
```

<400> 87

```
<210> 88
<211> 448
<212> DNA
<213> Homo sapien
```

<400> 88

```
<210> 89
<211> 463
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G
```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca 60
gtagtgattc tgccaaagtt ggtgttgtaa catgagtatg taaaatgtca aaaaattagc 120
agaggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt 180
ctcagtgaca agttntttct gatgcgaagt tctnattcca gtgttttagt cctttgcac 240
tttnatgtn agacttgccct ctntnaaatt gcttttgtn tctgcaggta ctatctgtgg 300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn 360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn 420
aattcnnana anttcagntn tcatacaaca naacngganc ccc 463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt 60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat 120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact 180
tcctttgtta agacttcac tcggtaaagtc ttaagttttg tagaaaggaa ttttaattgct 240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcct 300
ttgtgcatcc attttaaata tacttaatag ggcattggtg cactagggtta aattctgcaa 360
gagtcactct tctgcaaaag ttgcgttagt atatctgcca 400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac 120
atgectcttt gactaccgtg tgccagtgtc ggtgattctc acacacctcc nnccgctctt 180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttaciaat tcaccacga 240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt 300
tgtcaatact aaccgctgg tttgcctcca tcacatttgt gatctgtagc tctggataca 360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctggt 420
ngatcagggt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(477)  
 <223> n = A,T,C or G

<400> 92  
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60  
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120  
 cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttggt ggttgacggg 180  
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcggggacc 240  
 tgcagcgaaa ctctctgatg gtcattgagcg ggaagcgaat gangcccagg gccttgccca 300  
 gaaccttccg cctgtttctt ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360  
 accagcggac aaacggcgtt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420  
 aggaacggcn ccagcgtgtc cagggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93  
 <211> 377  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(377)  
 <223> n = A,T,C or G

<400> 93  
 gaacggctgg accttgctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60  
 agtccgagca gcccagacc gctgccgcc gaagctaagc ctgcctctgg ccttcccctc 120  
 cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180  
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaatt ttccaaacaa 240  
 caacaacaaa ataacatgtt tgctgtttna gttgtataaa agtangtgat tctgtatnta 300  
 aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tnctctggaa 360  
 ataaatatat tattaata 377

<210> 94  
 <211> 495  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(495)  
 <223> n = A,T,C or G

<400> 94  
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 ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180  
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240  
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300  
 tgcaagctca ccaagggtccc ctctcagtc ctccctaca ccctgaacgg nactggccc 360  
 acaccacccc agancancca cccgccatgg ggaatgttct caaggaatcg cngggcaacg 420  
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495

```
<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G
```

```
<210> 96
<211> 476
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G
```

```
<210> 97
<211> 479
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G
```

<400> 97  
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```
<210> 98
<211> 461
<212> DNA
<213> Homo sapien
```

```
<210> 99
<211> 171
<212> DNA
<213> Homo sapien
```

```
<210> 100
<211> 269
<212> DNA
<213> Homo sapien
```

```
<210> 101
<211> 405
<212> DNA
<213> Homo sapien
```

<400>	101						
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gctagcaagg	taacagggtg	gggcatgggt	acatgttcag	gtcaacttcc	tttgtcgtgg		120
ttgattggtt	tgtctttatg	ggggcggggt	ggggtagggg	aaacgaagca	aataacatgg		180



<210> 105  
 <211> 538  
 <212> DNA  
 <213> Homo sapien

<400> 105  
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 gtcttgaaca ccaatattaa tttgaggaaa atacaccaa atacattaag taaattattt 180  
 aagatcatag agcttgtaag tgaaaagata aaatttgacc tcagaaactc tgagcattaa 240  
 aaatccacta ttagcaaata aattactatg gacttcttgc ttttaattttg tgatgaatat 300  
 ggggtgtcac tggtaaacca acacattctg aaggatacat tacttagtga tagattctta 360  
 tgtactttgc taatacgtgg atatgagttg acaagtttct ctttcttcaa tcttttaagg 420  
 ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttctttcta tggaaggatt 480  
 agatatgttt cctttgccaa tattaataatgt ttactactag tgaaaccc 538

<210> 106  
 <211> 473  
 <212> DNA  
 <213> Homo sapien

<400> 106  
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 atttatttagc tctgcaactt acatatttaa attaaagaaa cgtttttagac aactgtacaa 120  
 tttataaatg taagggtgcca ttattgagta atatatctct ccaagagtgg atgtgtccct 180  
 tctcccacca actaatgaac agcaacatta gttaattttt attagtagat atacactgct 240  
 gcaaacgcta attctcttct ccattcccat gtgatattgt gtatatgtgt gagttggtag 300  
 aatgcatcac aatctacaat caacagcaag atgaagctag gctgggcttt cggtgaaaat 360  
 agactgtgtc tgtctgaatc aaatgatctg acctatcctc ggtggcaaga actcttcgaa 420  
 ccgcttcctc aaaggcgctg ccacatttgt ggctctttgc acttgtttca aaa 473

<210> 107  
 <211> 1621  
 <212> DNA  
 <213> Homo sapien

<400> 107  
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 ctgtgctatg gtccctggctg acttcggggc gcgtgtggta cgctgggacc ggcccggctc 120  
 ccgctacgac gtgagccgct tgggcccggg caagcgctcg ctagtgtctg acctgaagca 180  
 gccgcgggga gccgccgtgc tgcggcgctc gtgcaagcgg tcggatgtgc tgctggagcc 240  
 ctccgccgc ggtgtcatgg agaaactcca gctgggccc gagattctgc agcgggaaaa 300  
 tccaaggctt atttatgcca ggctgagtg atttggccag tcaggaagct tctgccggtt 360  
 agctggccac gatatcaact atttggcttt gtcaggtgtt ctctcaaaaa ttggcagaag 420  
 tggtgagaat ccgtatgccc cgtctgaatc cctggctgac tttgctggtg gtggccttat 480  
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 gaaatcgagt ctgtgggaag cacctcgagg acagaacatg ttggatggtg gagcaccttt 660  
 ctatacgact tacaggacag cagatgggga attcatggct gttggagcaa tagaaccaca 720  
 gttctacgag ctgctgatca aaggacttgg actaaagtct gatgaacttc ccaatcagat 780  
 gagcatggat gattggccag aaatgaagaa gaagtttgca gatgtatttg caaagaagac 840  
 gaaggcagag tgggtgcaaa tctttgacgg cacagatgcc tgtgtgactc cggttctgac 900  
 ttttgaggag gttgttcac atgatcaca caaggaacgg ggctcgttta tcaccagtga 960  
 ggagcaggac gtgagccccc gccctgcacc tctgctgtta aacaccccag ccattccctc 1020

```

tttcaaaagg gatcctttca taggagaaca cactgaggag atacttgaag aatttggatt 1080
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agctagtctc taacttccag gccacggct caagtgaatt tgaatactgc atttacagt 1200
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ccactctaata caagaaaaga attacagact ctgattctac agtgatgatt gaattctaaa 1320
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a 1621

```

<210> 108  
 <211> 382  
 <212> PRT  
 <213> Homo sapien

<400> 108

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Gly	Pro	Phe	Cys	Ala	Met	Val	Leu	Ala	Asp	Phe	Gly	Ala	Arg	Val	Val	20	25	30	
Arg	Val	Asp	Arg	Pro	Gly	Ser	Arg	Tyr	Asp	Val	Ser	Arg	Leu	Gly	Arg	35	40	45	
Gly	Lys	Arg	Ser	Leu	Val	Leu	Asp	Leu	Lys	Gln	Pro	Arg	Gly	Ala	Ala	50	55	60	
Val	Leu	Arg	Arg	Leu	Cys	Lys	Arg	Ser	Asp	Val	Leu	Leu	Glu	Pro	Phe	65	70	75	80
Arg	Arg	Gly	Val	Met	Glu	Lys	Leu	Gln	Leu	Gly	Pro	Glu	Ile	Leu	Gln	85	90	95	
Arg	Glu	Asn	Pro	Arg	Leu	Ile	Tyr	Ala	Arg	Leu	Ser	Gly	Phe	Gly	Gln	100	105	110	
Ser	Gly	Ser	Phe	Cys	Arg	Leu	Ala	Gly	His	Asp	Ile	Asn	Tyr	Leu	Ala	115	120	125	
Leu	Ser	Gly	Val	Leu	Ser	Lys	Ile	Gly	Arg	Ser	Gly	Glu	Asn	Pro	Tyr	130	135	140	
Ala	Pro	Leu	Asn	Leu	Leu	Ala	Asp	Phe	Ala	Gly	Gly	Gly	Leu	Met	Cys	145	150	155	160
Ala	Leu	Gly	Ile	Ile	Met	Ala	Leu	Phe	Asp	Arg	Thr	Arg	Thr	Asp	Lys	165	170	175	
Gly	Gln	Val	Ile	Asp	Ala	Asn	Met	Val	Glu	Gly	Thr	Ala	Tyr	Leu	Ser	180	185	190	
Ser	Phe	Leu	Trp	Lys	Thr	Gln	Lys	Ser	Ser	Leu	Trp	Glu	Ala	Pro	Arg	195	200	205	
Gly	Gln	Asn	Met	Leu	Asp	Gly	Gly	Ala	Pro	Phe	Tyr	Thr	Thr	Tyr	Arg	210	215	220	
Thr	Ala	Asp	Gly	Glu	Phe	Met	Ala	Val	Gly	Ala	Ile	Glu	Pro	Gln	Phe	225	230	235	240
Tyr	Glu	Leu	Leu	Ile	Lys	Gly	Leu	Gly	Leu	Lys	Ser	Asp	Glu	Leu	Pro	245	250	255	
Asn	Gln	Met	Ser	Met	Asp	Asp	Trp	Pro	Glu	Met	Lys	Lys	Lys	Phe	Ala	260	265	270	
Asp	Val	Phe	Ala	Lys	Lys	Thr	Lys	Ala	Glu	Trp	Cys	Gln	Ile	Phe	Asp	275	280	285	

009900"0225960

```
<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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```
<210> 110
<211> 3410
<212> DNA
<213> Homo sapien
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<400> 110  
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ggtgagccgc	ctgctgcggc	accggaaagc	ccagctcttg	ctggtcaacc	tgctaacctt	360
tggcctggag	gtgtgttttg	ccgcaggcat	cacctatgtg	ccgcctctgc	tgctggaagt	420
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tagcgggggtg	aatattttat	actgtaagtg	agcaatcaga	gtataatgtt	tatggtgaca	3300
aaattaaagg	ctttcttata	tgttttaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3360

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3410

<210> 111  
 <211> 1289  
 <212> DNA  
 <213> Homo sapien

<400> 111  
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 gtggagcctc agcagttccc tctttcagaa ctactgccca agagccctga acaggagcca 120  
 ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180  
 tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcaccccttc 240  
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 tgttacaatg ttaaaaaaaa aaaaaaaaaa 1289

<210> 112  
 <211> 315  
 <212> PRT  
 <213> Homo sapien

<400> 112  
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 1 5 10 15  
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe  
 20 25 30  
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala  
 35 40 45  
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu  
 50 55 60  
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro  
 65 70 75 80  
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser  
 85 90 95  
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys  
 100 105 110  
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe  
 115 120 125  
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe







1                    5                    10                    15  
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val  
                   20                    25                    30  
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser  
                   35                    40                    45  
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly  
                   50                    55                    60  
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr  
 65                    70                    75                    80  
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile  
                   85                    90                    95  
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr  
                   100                    105                    110  
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys  
                   115                    120                    125  
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met  
                   130                    135                    140  
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp  
 145                    150                    155                    160  
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn  
                   165                    170                    175  
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala  
                   180                    185                    190  
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile  
                   195                    200                    205  
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly  
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 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu  
 225                    230                    235                    240  
 Gln

<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115  
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 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180  
 actggtagaa aaacatctga agagctagtc tatcagcatc tgacaggtga attggatggt 240  
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttggt 300  
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 ttagtc 366

<210> 116  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)

009060"6225960

<223> n = A,T,C or G

<400> 116

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agactttact	atnttcata	tttaagacac	atgatttatc	ctatttttagt	aacctgggtc	180
atacgttaaa	caaaggataa	tgtgaacagc	agagaggatt	tgttggcaga	aaatctatgt	240
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<210> 117

<211> 305

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(305)

<223> n = A,T,C or G

<400> 117

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aataaggcaa	aatatatgaa	acaacaggtc	tcgagatatt	ggaaatcagt	caatgaagga	180
tactgatccc	tgatcactgt	cctaattgcag	gatgtgggaa	acagatgagg	tcacctctgt	240
gactgcccc	gcttactgcc	tgtagagagt	ttctangctg	cagttcagac	agggagaaat	300
tggt						305

<210> 118

<211> 71

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(71)

<223> n = A,T,C or G

<400> 118

accaaggtgt	ntgaatctct	gacgtgggga	tctctgattc	ccgcacaatc	tgagtggaaa	60
aantcctggg	t					71

<210> 119

<211> 212

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(212)

<223> n = A,T,C or G

<400> 119

actccggttg	gtgtcagcag	cacgtggcat	tgaacatngc	aatgtggagc	ccaaaccaca	60
gaaaatgggg	tgaaattggc	caactttcta	tnaacttatg	ttggcaantt	tgccaccaac	120

agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctcactaanc ggaattaant 180  
aatggantca aganactccc aggcctcagc gt 212

<210> 120  
<211> 90  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(90)  
<223> n = A,T,C or G

<400> 120  
actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggctcttgcc 60  
ctccgccggc gcagaacatg ctgggggtgt 90

<210> 121  
<211> 218  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(218)  
<223> n = A,T,C or G

<400> 121  
tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60  
gaataagatt tgctaaaaga ttgggggcta aaacatgggt attgggagac atttctgaag 120  
atatncangt aaattangga atgaattcat gggtcttttg ggaattcctt tacgatngcc 180  
agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122  
<211> 171  
<212> DNA  
<213> Homo sapien

<400> 122  
taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
catttgtagt ctcatggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120  
caccaccccg gcggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123  
<211> 76  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(76)  
<223> n = A,T,C or G

<400> 123

009060"6225960

tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60  
ttatcaanta ttgtgt 76

<210> 124  
<211> 131  
<212> DNA  
<213> Homo sapien

<400> 124  
acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60  
caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
ttaagatttg t 131

<210> 125  
<211> 432  
<212> DNA  
<213> Homo sapien

<400> 125  
actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60  
cttgaaaaag aggtgatagc tcttcagagg acttgtagt tttgctcaga tgctgaagaa 120  
ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180  
ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240  
ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300  
catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag 360  
caggaaacat cagaaccact attttctagc cctctgtcag agcaaacctc agtgcccttc 420  
ctctttgctt gt 432

<210> 126  
<211> 112  
<212> DNA  
<213> Homo sapien

<400> 126  
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60  
agtaagaatg atatttcccc ccagggatca ccaaatttt ataaaaattt gt 112

<210> 127  
<211> 54  
<212> DNA  
<213> Homo sapien

<400> 127  
accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128  
<211> 323  
<212> DNA  
<213> Homo sapien

<400> 128  
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60  
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120  
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180

```
<210> 129
<211> 192
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G
```

```
<210> 130
<211> 362
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (362)
<223> n = A,T,C or G
```

```
<210> 131
<211> 332
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G
```

<400> 131						
ctttttgaaa	gatcgtgtcc	actcctgtgg	acatcttggt	ttaatggagt	ttcccatgca	60
gtangactgg	tatggtttga	gctgtccaga	taaaaacatt	tgaagagctc	caaaatgaga	120
gttctcccg	gttcgctctg	ctgtctcaag	tctcagcagc	agcctctttt	aggaggcatc	180
tcttgaacta	gattaaqqca	qcttgtaaat	ctgatgtgat	ttggtttatt	atccaactaa	240

```
<210> 132
<211> 322
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G
```

```
<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G
```

```
<210> 134
<211> 121
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G
```

<210> 135





<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (338)

<223> n = A,T,C or G

<400> 138

actcactgga	atgccacatt	cacaacagaa	tcagaggtct	gtgaaaacat	taatggctcc	60
ttaactttctc	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccac	120
tgctgggcag	tctcccatgc	cttcacacag	gaaagggtct	gagaaaaatc	acatccaatg	180
tcatgtgttt	ccagccacac	caaaagggtgc	ttgggggtgga	gggctggggg	catananggt	240
cangcctcag	gaagcctcaa	gttccattca	gctttgccac	tgtacattcc	ccatntttta	300
aaaaactgat	gccttttttt	tttttttttg	taaaaattc			338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
gaaagggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
attcaaacag	acctcgatc	tcttggtgtg	agcctggtcg	gtcaccgcc	tatcatctgc	180
atttgctta	ctcaggtgct	accggactct	ggccctgat	gtctgtagtt	tcacaggatg	240
ccttatttgt	cttctacacc	ccacagggcc	ccctacttct	tcggatgtgt	ttttaataat	300
gtcagctatg	tgccccatcc	tccttcacgc	cctccctccc	tttccctacca	ctgctgagtg	360
gcctggaact	tgtttaaagt	gt				382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (200)

<223> n = A,T,C or G

<400> 140

accaaancctt	ctttctgttg	tgttngattt	tactataggg	gtttngcttn	ttctaaanat	60
acttttcatt	taacancctt	tgtaagtgt	caggctgcac	tttgctccat	anaattattg	120
ttttcacatt	tcaacttgta	tgtgtttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (335)

<223> n = A,T,C or G

<400> 141  
 actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg 60  
 ggggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc aggggtttgtt 120  
 atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga 180  
 aatggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg 240  
 tttttctacc agttcagaga tnggttaatg actanttcca atggggaaaa agcaagatgg 300  
 attcacaac caagtaattt taaacaaaga cactt 335

<210> 142  
 <211> 459  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(459)  
 <223> n = A,T,C or G

<400> 142  
 accagggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta 60  
 ggggttggtta aagacaaccc agcttaatat caagagaaat tgtgaccttt catggagtat 120  
 ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca 180  
 cacatgggtcc aacaacactc aaataataaa tcaaataatna tcagatgtta aagattggtc 240  
 ttcaaacatc atagccaatg atgccccgct tgccataat ctctccgaca taaaaccaca 300  
 tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga 360  
 agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct 420  
 cagcanggggt gggaggaacc agctcaacct tggcgtant 459

<210> 143  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<400> 143  
 acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg 60  
 aaatccaaac agtctctcct agaaaggaat agtgtcacca accccacca tctccctgag 120  
 accatccgac ttcctgtgt 140

<210> 144  
 <211> 164  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(164)  
 <223> n = A,T,C or G

<400> 144  
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60  
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120  
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210>	148
<211>	477
<212>	DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 148

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tactgtgcc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggctctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcacgcacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctacccg	acatgtccag	360
caccactggg	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	acccctttaa	ttaccatgct	atgggtgg	477

<210> 149

<211> 207

<212> DNA

<213> Homo sapien

<400> 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcatttaag	agggagaagac	60
taacgtattt	tagagagcca	aggaaggttt	ctgtggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagtg	ggtggtgtgg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggaaacagc	agtgaaa				207

<210> 150

<211> 111

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 150

accttgattt	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaagt	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

<210> 151

<211> 196

<212> DNA

<213> Homo sapien

<400> 151

agcgcggcag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tggtgataac	60
agcaagatgg	ctttgaactc	aggggtcacca	ccagctattg	gaccttacta	tgaaaaccat	120
ggataccaac	cggaaaaccc	ctatcccgcg	cagcccactg	tggtccccac	tgtctacgag	180
gtgcatccgg	ctcagt					196

<210> 152

009050-624960

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      <400> 152
acagcacttt cacatgtaag aagggagaaa ttcttaaagt taggagaaaag ataacagAAC      60
cttccccctt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag      120
gagggagttt gt                                     132

```

```
<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G
```

```
<210> 154
<211> 333
<212> DNA
<213> Homo sapien
```

```
<210> 155
<211> 308
<212> DNA
<213> Homo sapien
```

<400>	155					
actggaata	ataaaaccca	catcacagt	ttgtgtcaa	gatcatcagg	gcatggatgg	60
gaaagtgctt	tgggaactgt	aaagtgccta	acacatgatc	gatgatTTTT	gttataatat	120
ttgaatcacg	gtgcatacaa	actctctctg	ctgctctctc	tgggccccag	ccccagccc	180
atcacagctc	actgctctgt	tcatccagqc	ccaqcatqta	gtggctgatt	cttcttggt	240

gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgctg 300  
gccctggg 308

<210> 156  
<211> 295  
<212> DNA  
<213> Homo sapien

<400> 156  
accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta 60  
ttattgatta ctgagagAAC tgtagacat ttagttgaag attttctaca caggaactga 120  
gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt 180  
ctaatatatt ctcaatcaaa taagggttagc ataatcagga aatcgaccaa ataccaatat 240  
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157  
<211> 126  
<212> DNA  
<213> Homo sapien

<400> 157  
acaagtttaa atagtgtgtg cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60  
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120  
cttagt 126

<210> 158  
<211> 442  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(442)  
<223> n = A,T,C or G

<400> 158  
accactggg cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60  
aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt 120  
gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatatTT 180  
ctggtgggtc tgaccaaagc aggtcatggg ttgttgagca tttgggatcc cagtgaagta 240  
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300  
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360  
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420  
tgttcattct ctgatgtcct gt 442

<210> 159  
<211> 498  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(498)  
<223> n = A,T,C or G

009060"6245960

```
<210> 160
<211> 380
<212> DNA
<213> Homo sapien
```

<400> 160						
acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgttgtga	agagatgccc	catgacccca	gatgcctctc	240
ccacccttac	ctccattctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctggt	cacaacggtg	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<400> 161  
actccacatc ccctctgagc aggcggttgt cgttcaaggt gtattttggcc ttgcctgtca 60  
cactgtccac tggccctta tccacttggg gcttaatccc tcgaaagagc atgt 114

```

<400> 162
actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa      60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt      120
tggatgata taacttggca ataaccagt ctggtgatac ataaaactac tcactgt      177

```

```
<210> 163
<211> 137
<212> DNA
<213> Homo sapien
```





<222> (1)...(383)  
 <223> n = A,T,C or G

<400> 166  
 acatcttagt agtgtggcac atcagggggc catcagggtc acagtccactc atagcctcgc 60  
 cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct 120  
 ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180  
 tttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcagggtg 240  
 gatgccaacc tcgtctangg tccgtgggaa gctgggtgcc acntcaccta caacctgggc 300  
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360  
 nggggccttt ttggtgaact ttc 383

<210> 167  
 <211> 247  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(247)  
 <223> n = A,T,C or G

<400> 167  
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60  
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120  
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180  
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240  
 tgangtc 247

<210> 168  
 <211> 273  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> n = A,T,C or G

<400> 168  
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60  
 aatccctcan ccttgttctt cactactgtc tatactgana gtgtcatgtt tccacaaagg 120  
 gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtgggc 180  
 aattcccaac ttccttgcca caagcttccc aggcctttctc ccctggaaaa ctccagcttg 240  
 agtcccagat acactcatgg gctgccttg gca 273

<210> 169  
 <211> 431  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(431)

<223> n = A,T,C or G

<400> 169

acagccttgg	cttccccaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	aggggtcaaag	gatgtgacat	caacagtttc	tggtttcaga	acaggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacagggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170

<211> 266

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (266)

<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgccctgtgc	ggctgctgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagctc	tgggaggggg	agttgggggtg	ggcattttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcggca	60
ctggtcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcacccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgccctcg	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggg	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtgg	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agcccctcct	780
ccctcaggcc	caggagtcca	ggccccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840

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```

cccagcccct cctccctcag acccaggagt ccagaccccc cagcccctcc tccctcagac      900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc      960
ctcagaccca ggggtccagg cccccaaccc ctctccctcc agactcagag gtccaagccc     1020
ccaacccntc attccccaga cccagagggtc cagggtcccag cccctcntcc ctcagaccca     1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttgtggc acgttgaccc     1140
aaccttacca gttggttttt catttttngt ccctttcccc tagatccaga aataaagttt     1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa     1248

```

```

<210> 172
<211> 159
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1          5          10          15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20          25          30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35          40          45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50          55          60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65          70          75          80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85          90          95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100         105         110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115         120         125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130         135         140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145         150         155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagcccg ctcgcagcc ctggcaggcg gcactgggtca tggaaaacga attgttctgc      60
tcgggcgtcc tgggtcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc     120
tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagagccagg gagccagatg     180

```

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gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440  
caaaaaaaaa aaaaaaaaaa 1459

<210> 175  
<211> 1167  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1167)  
<223> n = A,T,C or G

<400> 175  
g'gcagccct ggcaggcggc actggtcatg gaaaacgaat tgtttctgctc gggcgctcctg 60  
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120  
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180  
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240  
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300  
tgccctaccg cggggaactc ttgcctcgtn tctggctggg gtctgctggc gaacggcaga 360  
atgcctaccg tgctgcactg cgtgaacgtg tgggtggtgt ctgaggangt ctgcagtaag 420  
ctctatgacc cgctgtacca cccagcatg ttctgcgcgc ggggagggca agaccagaag 480  
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540  
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc 600  
tgcaaattca ctgagtggat agagaaaacc gtccagncca gtttaactctg gggactggga 660  
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720  
gcccctcctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780  
gtacagatcc ccagccctc ctccctcaga ccaggagtc cagacccccc agccctcnt 840  
centcagacc caggagtcca gcccctcctc cntcagagtc aggagtccag acccccagc 900  
ccntcntccg tcagaccagc ggggtgcaggc ccccaacccc tcntcentca gagtcagagg 960  
tccaagcccc caacccctcg ttccccagac ccagaggtn cagggtccagc cctcctccc 1020  
tcagaccagc cgggtccaatg ccacctagan tntccctgta cacagtgcc ccttggtggca 1080  
ngttgaccca acctaccag ttgggtttttc attttttgtc cctttccctt agatccagaa 1140  
ataaagtnta agagaagcgc aaaaaaa 1167

<210> 176  
<211> 205  
<212> PRT  
<213> Homo sapien  
  
<220>  
<221> VARIANT  
<222> (1)...(205)  
<223> Xaa = Any Amino Acid

<400> 176  
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp  
1 5 10 15  
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
20 25 30  
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
35 40 45  
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu  
50 55 60

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Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
65 70 75 80  
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
85 90 95  
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met  
100 105 110  
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val  
115 120 125  
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala  
130 135 140  
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly  
145 150 155 160  
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys  
165 170 175  
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys  
180 185 190  
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser  
195 200 205

<210> 177  
<211> 1119  
<212> DNA  
<213> Homo sapien

<400> 177  
gcgcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc 60  
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gttccagaa ctctacacc 120  
atcgggctgg cctgcacag tcttgaggcc gaccaagagc caggagacca gatggtggag 180  
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg 240  
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct 300  
tcgcagtgcc ctaccgcggg gaactcttgc ctggtttctg gctggggtct gctggcgaac 360  
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420  
caaccctggc aggggtgtac catttcggca acttcagtg caaggacgtc ctgctgcac 480  
ctcactgggt gctcactact gctcactgca tcaccgggaa cactgtgatc aactagccag 540  
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600  
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660  
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc 720  
tgacctacag aggtgaggga tcatatagct cttcaaggat gctggtactc cctcacaaa 780  
ttcattttctc ctggtgtagt gaaagggtgc ccctctggag cctcccaggg tgggtgtgca 840  
ggtcacaatg atgaatgtat gatcgtgttc ccattacca aagccttta atccctcatg 900  
ctcagtacac cagggcaggc ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960  
accacctcag gactcctgga ttctctgct agttgagctc ctgcatgctg cctccttggg 1020  
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080  
ttaataaaca gaagctgtga tgtaaaaaa aaaaaaaaa 1119

<210> 178  
<211> 164  
<212> PRT  
<213> Homo sapien

<220>  
<221> VARIANT  
<222> (1)...(164)  
<223> Xaa = Any Amino Acid

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<221> misc\_feature  
 <222> (1)...(558)  
 <223> n = A,T,C or G

<400> 181  
 tccytttgkt naggtttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60  
 aatgttttagg cagtgctagt aatttcytcg taatgattct gttattactt tccnattct 120  
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180  
 ggtagtgtga tagtataagt atctaagtg agatgaaagt gtgttatata tatccattca 240  
 aaattatgca agttagtaat tactcagggg taactaaatt actttaatat gctgttgaac 300  
 ctactctgtt ccttggttag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360  
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420  
 ttttattccc aggaatatgg kggttcatttt atgaatatta cscrggatag awgtwtgagt 480  
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540  
 caaaaaaaaa aaaaaaaaaa 558

<210> 182  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 182  
 acagggwttk grggatgcta agsccccrga rwtygtttga tccaaccctg gcttwttttc 60  
 agaggggaaa atgggggcta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120  
 cstcacacag astcccgagt agctgggact acaggcacac agtcactgaa gcaggccctg 180  
 ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240  
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300  
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360  
 ntctcttgge tttctcaata aartctctat ycatctcatg ttttaatttg tacgcatara 420  
 awtgstgara aaattaaaat gttctggtty mactttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

<400> 183  
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60  
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120  
 ggtgccagcc tgaccgccac tctcacattt gggtctctcg ctggccttgg tggagctggt 180  
 gccagcacca gtggcagctc tgggtgctgt ggtttctcct acaagtgaga ttttagatat 240  
 tgtaaatcct gccagtcttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300  
 cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360  
 gccatttcaa aaaaaaaaaa aaaa 384

<210> 184  
 <211> 496  
 <212> DNA  
 <213> Homo sapien

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<220>  
 <221> misc\_feature  
 <222> (1)...(496)  
 <223> n = A,T,C or G

<400> 184  
 accgaattgg gaccgctggc ttataagcga tcatgttynt ccrgtatkac ctcaacgagc 60  
 agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120  
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180  
 aacgcttcaa ggtgctcatg acccagcaac cgcgcctgt cctctgaggg tcccttaaac 240  
 tgatgtcttt tctgccacct gttacccttc ggagactccg taaccaaact cttcggactg 300  
 tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360  
 attatgcttg tgtgaggcaa tcatggtggc atcaccata aagggaacac atttgacttt 420  
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480  
 taataaaaaa aaaaaa 496

<210> 185  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

<400> 185  
 gctggtagcc tatggcgkkg cccacggagg ggctcctgag gccacggrac agtgacttcc 60  
 caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120  
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180  
 gggcacaccc tccctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240  
 tgggtgctgt cctcgtcatc ttctgctcg tggccaacat cctgctggtc aacttgctca 300  
 ttgccatgtt cagttacaca ttccggcaag tacagggcaa cagcgatctc tactgggaag 360  
 gcgcagcgtt accgcctcat ccgg 384

<210> 186  
 <211> 577  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(577)  
 <223> n = A,T,C or G

<400> 186  
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctcg ttcataccgc 60  
 tnccatcgtc atactgtagg tttgccacca cytcctggca tcttggggcg gcntaatatt 120  
 ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgcg 180  
 tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc cccacacttt tgatgacttt 240  
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300  
 cagccctatc atgccgttga mcgtgccgaa garcaccgag ccttgtgtgg gggkkgaaat 360  
 ctacccaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgcccag 420  
 gtggaaaaag amcamctcct ggargtgctn gccgtctctc gtcmttggtt ggcagcgtw 480  
 tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcatcatcc 540  
 aagatntcgc acagcactna tccagttggg attaaat 577

<210> 187

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<220>
<221> misc_feature
<222> (1) ... (534)
<223> n = A,T,C or G
```

```
<210> 188
<211> 761
<212> DNA
<213> Homo sapien
```

```
<210> 189
<211> 482
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G
```

```

<400> 189
tttttttttt tttgccgatn ctactatntt attgcaggan gtgggggtgt atgcaccgca      60
caccgggggt atnagaagca agaaggaagg agggagggca cagcccttg ctgagcaaca      120
aagccgcttg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc      180
aaggcagggg ccaccagtcg aggggtggga atacaggggg tgggagtgt gcataagaag      240
tgataggcac aggccacccg gtacagaccc ctgggtcctt gacaggtnga tttcgaccag      300
gtcattgtgc cctgcccagg cacagcgtna atctggaaaa gacagaatgc tttccttttc      360
aaatttggct ngtcatngaa ngggcanttt tccaanttn gctnnggtctt ggtacncttg      420
gttcggccca gctccnctgc caaaaantat tcaccnctt ccnaattgct tgcnggnccc      480
cc

```

```

<210> 190
<211> 471
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

```

```

<400> 190
tttttttttt ttttaaaaca gtttttcaca aaaaaattta ttagaagaat agtggttttg      60
aaaactctcg catccagtga gaactacat acaccacatt acagctngga atgtntctca      120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag      180
cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaattt      240
taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt      300
tgaaaaaatt catgtatgca atccaaccaa agaacttnat tggtagatcat gantnctcta      360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancaacnngt acaaaaaanaa      420
tctgtaattn anttcaacct ccgtacngaa aaatnttntt tatacactcc c              471

```

```

<210> 191
<211> 402
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(402)
<223> n = A,T,C or G

```

```

<400> 191
gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct      60
gtcttccact cactgtctgt aagcttttta accagacwg tatcttcata aatagaacaa      120
attcttcacc agtcacatct tctaggacct ttttggtatc agttagtata agctcttcca      180
cttcctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg      240
ctcgttctct aacaatgtcc tctccttgaa gtatttgggt gaacaaccca cctaaagtcc      300
ctttgtgcat ccatttttaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcata tgtctgcaaa agttgcgtta gtatatctgc ca              402

```

```

<210> 192
<211> 601
<212> DNA

```

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<400> 194



<211> 492  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (492)  
 <223> n = A,T,C or G

<400> 197  
 tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60  
 atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120  
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtana gatnacagag 180  
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240  
 caaaattcta ccttgaact tactccatcc aaatattgga ataanagtca gcagtgatac 300  
 attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360  
 tgttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420  
 catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480  
 ancntggctt aa 492

<210> 198  
 <211> 478  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (478)  
 <223> n = A,T,C or G

<400> 198  
 tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60  
 tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120  
 tgagtatatt ttgaaaagga caagttaaata gtanacncat attgccganc atancacatt 180  
 tatacatggc ttgattgata ttagcacag canaaactga gtgagttacc agaaanaaat 240  
 natatatgtc aatcngattt aagatacaaa acagatccta tggtagatan catcntgtag 300  
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaga gatggccgta 360  
 agcattctag tacctctact ccatgggttaa gaatcgta cttatgttta catatgtnca 420  
 gggtaagaat tgtgttaagt naanttatgg agagggtccan gagaaaaatt tgatncaa 478

<210> 199  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (482)  
 <223> n = A,T,C or G

<400> 199  
 agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcactgaca atcagacctt 60  
 tgctagttcc tgtcatctat tcgctactaa atgcagactg gagggggacca aaaaggggca 120  
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180

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```

agtgattcag tttcctctac ggatgagaga ctggctcaag aatatactca tgcagcttta      240
tgaagccnac tctgaacacg ctgggttatct nagatgagaa ncagagaaat aaagtcnaga      300
aaattttacct ggangaaaag aggcttttngg ctgggggacca tcccattgaa ccttctctta      360
anggacttta agaanaaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg      420
aacntngacn ncacccttnt ggaatanant cttgacngcn tcctgaactt gctcctctgc      480
ga                                                                                   482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgcc a gcagttggtc      60
cgactgcgac gacggcgccg gcgacagtcg caggtgcagc gcggggcgct ggggtcttgc      120
aaggctgagc tgacgccgca gaggtcgtgt cacgtcccac gaccttgacg ccgtcgggga      180
cagccggaac agagcccggt gaangcggga ggcctcgggg agcccctcgg gaagggcggc      240
ccgagagata cgcaggtgca ggtggccgcc
                                                                                   270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca      60
gctagcaagg taacagggta gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg      120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca      180
tggagtgggt gcacctccc tgtagaacct gggtacnaaa gcttggggca gttcacctgg      240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatata ttttagagag      300
tccactgtnt ctggaggag attagggttt cttgccanaa tccaancaa atccacntga      360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggcca      419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (509)
<223> n = A,T,C or G

```

```

<400> 202

```





<400> 207

```
<210> 208
<211> 524
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (524)
<223> n = A,T,C or G
```

```
<210> 209
<211> 159
<212> DNA
<213> Homo sapien
```

```
<210> 210
<211> 256
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G
```

<400>	210					
actccctggc	agacaaaggc	agaggagaga	gctctgtag	ttctgtgttg	ttgaactgcc	60
actgaatttc	ttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcgagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatca					256

<210> 211  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 211  
 acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60  
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120  
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180  
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240  
 aaaaaaggag caaatgagaa gcct 264

<210> 212  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 212  
 acccaaaaat ccaatgctga atatttggtt tcattattcc canattcttt gattgtcaaa 60  
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120  
 gtttatatat gcagcaaca tattcaagcg cgacaacagg ttattgaact tgcccggcag 180  
 ttnaatttca ttccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240  
 ccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300  
 ttttttttct ctttattcct ttgtcaga 328

<210> 213  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(250)  
 <223> n = A,T,C or G

<400> 213  
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatatt tctctnacct 240  
 tctcatcggc 250

<210> 214

009060" 6225960

<211> 444  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(444)  
 <223> n = A,T,C or G

<400> 214  
 acccagaatc caatgctgaa tatttggtt cattattccc agattctttg attgtcaaag 60  
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120  
 tttatatatg cagcaacaat attcaagcgc gacaacaggc tattgaactt gcccggcagg 180  
 tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240  
 ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat 300  
 ttttttttcc tttattcctt tgtcagagat gcgattcctc catatgctan aaaccaacag 360  
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420  
 actttgctct ccctaataata cctc 444

<210> 215  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(366)  
 <223> n = A,T,C or G

<400> 215  
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttctctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240  
 tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300  
 tccaagctgt tttctacact gtaaccaggc ttccaaccaa ggtggaaatc tcctatactt 360  
 ggtgcc 366

<210> 216  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(260)  
 <223> n = A,T,C or G

<400> 216  
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60  
 caagacaggg gcttaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120  
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180  
 atcaaaaatt tctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240  
 aattcttctt tccctccttt 260

005060" 5225960

<210> 217  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 217  
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60  
 tcttgccat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120  
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180  
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240  
 atatccttca tgcttgtaaa gt 262

<210> 218  
 <211> 205  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(205)  
 <223> n = A,T,C or G

<400> 218  
 accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60  
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120  
 aggcctcccc agttctactg acctttgtcc ttangntna ngtccagggt tgctaggaaa 180  
 anaaatcagc agacacaggt gtaaa 205

<210> 219  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221  
 <211> 167

009060 "BCE350"

```
<220>
<221> misc_feature
<222> (1)...(167)
<223> n = A,T,C or G
```

```
<210> 222
<211> 351
<212> DNA
<213> Homo sapien
```

```
<210> 223
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 224
<211> 320
<212> DNA
<213> Homo sapien
```

<400>	224						
cccctgaagg	cttcttgta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga		60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctcccatca	aaaaaaaaat		120
ggatacatgg	ttaaaggata	raagggaat	atttatcat	atgttctaaa	agagaaggaa		180

gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatccctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagct	300
tttaractcm	gcattgtgac					320

<210> 225  
 <211> 1214  
 <212> DNA  
 <213> Homo sapien

<400> 225						
gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggtcatgga	aaacgaattg	60
ttctgctcgg	gcgtccctgg	gcatccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	agggcagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttgagcgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggtctgggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgcgggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagcccctg	gtggccaagt	tggtctgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaagggaatt	720
caggaatatc	tggtcccgag	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agcccctcct	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccga	ggagtccagc	ccctcctccc	tcagaccag	900
gagtcagag	ccccagccc	ctcctccctc	agaccaggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcg	gtccaatgcc	acctagactc	tcctgtgaca	1080
cagtgcctcc	ttgtggcag	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226  
 <211> 119  
 <212> DNA  
 <213> Homo sapien

<400> 226						
accagtatg	tgcagggaga	cggaaccccc	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227  
 <211> 818  
 <212> DNA  
 <213> Homo sapien

<400> 227						
acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatgggggc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagcaca	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aagggtggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaa	ggcagacccc	tgaaaacgaa	300
gcttggtccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttctc	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420



ggaaaggggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggtctt	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggtg	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

&lt;210&gt; 228

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tgggaagatgg	aagaccgtgt	120
tctgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtgc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcttg	ccgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgaacctg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctgt	taatgttctt	ctgtgttgtc	agctgtcttc	atttctctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcaactctg	aagtagctgg	tggt				744

&lt;210&gt; 229

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacacagt	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

&lt;210&gt; 230

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

&lt;210&gt; 231



<400> 235

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239



t

301

<210> 244  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctgggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180  
 aggtgttgta atgggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240  
 actgtttgtc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgcttg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aaggatgtgt ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggctca tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttggtt ccccccagct 120  
 gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaagggag gcaagttctg ggttccttgc 240  
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300  
 a 301

<210> 248

009060"626960

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248  
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcaact 60  
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt 120  
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180  
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240  
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300  
 c 301

<210> 249  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 249  
 gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag 60  
 ccttgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc 120  
 ccagggagac acagcagtga ctcagagctg gtgcacact gtgcctccct cctcaccgcc 180  
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240  
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300  
 a 301

<210> 250  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 250  
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacactttctc 60  
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120  
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180  
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240  
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300  
 a 301

<210> 251  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 251  
 gccaggtcc tacatttggc ccagtttccc cctgcaccc ctcaggggcc cctgcctcat 60  
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120  
 ggcaggggtc ctcaaaaatg ccaactgtcac tgccaggaaa tgcttctgag cagtacacct 180  
 cattgggatac aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa 240  
 cctctggagg ggggcagtgg aatcccagct ccaggacgga tctgtctgaa aagatatcct 300  
 c 301

<210> 252  
 <211> 301  
 <212> DNA

009050"04245960

<213> Homo sapien

<400> 252

gcaaccaatc	actctgtttc	acgtgacttt	tatcaccata	caattttgtgg	catttcctca	60
ttttctacat	tgtagaatca	agagtgtaaa	taaatgtata	tcgatgtctt	caagaatata	120
tcatttcctt	ttcactagga	acccattcaa	aatataagtc	aagaatctta	atatcaacaa	180
atatatcaag	caaactggaa	ggcagaataa	ctaccataat	ttagtataag	tacccaaagt	240
tttataaatc	aaaagcccta	atgataacca	tttttagaat	tcaatcatca	ctgtagaatc	300
a						301

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

ttccctaaga	agatgttatt	ttgttggggt	ttgttccccc	tccatctcga	ttctcgtacc	60
caactaaaaa	aaaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctggt	240
tccatagtgc	ccacagggta	ttcctcacat	tttctccata	ggaaaaatgct	ttttcccaag	300
g						301

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

cgctgcgcct	ttcccttggg	ggagggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcattcttacc	ctgggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagt	tgacttggat	120
tggtgatttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggtg	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac	300
aa						302

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 256  
 gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct 60  
 aggacctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120  
 acccccacaaa gacctggacac cttgagcaca cagttatgac caggacagac tcatctctat 180  
 agggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt 240  
 gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt 300  
 t 301

<210> 257  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 257  
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttactat cccctgaatt 60  
 tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag 120  
 tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180  
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240  
 tottaattct cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300  
 c 301

<210> 258  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 258  
 cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60  
 agggggccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120  
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180  
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240  
 tggatgatccc tgggagcgcc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac 300  
 t 301

<210> 259  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

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```
<210> 260
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 261
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 262
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 263
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
```

<400> 263

<210> 264

<212> DNA

<400> 264

<210> 265

<212> DNA

<400> 265

<210> 266

<212> DNA

<400> 266

<210> 267

<211> 301

<212> DNA

<213> Homo sapien

<400> 267

<211> 301

<213> Homo sapien

<400> 268

<211> 301

<213> Homo sapien

<400> 269

<211> 301

<213> Homo sapien

$\langle 400 \rangle$  270

<211> 301

<213> Homo sapien

$\langle 220 \rangle$



```

cttatataact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggtg gaaaagtcca      180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaagtc      300
c                                                                    301

```

```

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaatt ggccaacttt ctattaactt atgttggtcaa ttttgccacc aacagtaagc      120
tggcccttct aataaaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact cccaggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc      240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccttat      300
a                                                                    301

```

```

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt      240
aaaactattc agtatgtttc ctttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                                                    301

```

```

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 277
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgccccca ccctcgctct      180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga      240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg      300

```

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c

301

<210> 278  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 278  
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60  
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120  
 cagtctctac tggtattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180  
 aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt 240  
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300  
 c 301

<210> 279  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 279  
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
 ttagaccttt accttcagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180  
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
 a 301

<210> 280  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 280  
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60  
 tagaaagggt gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120  
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180  
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240  
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300  
 t 301

<210> 281  
 <211> 301  
 <212> DNA

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<213> Homo sapien

<400> 281

```

aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc    60
gccgagcaat ccaaatcctg aatgaagggg catcttctga aaaaggagat ctgaatctca    120
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa    180
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc    240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc    300
g                                                                    301

```

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

```

caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca    60
tcacagaacc aaaaattaag aaattcaaaa agacattttg tgggcacctg ctagcacaga    120
agcgcagaag caaagcccag gcagaacat gctaacctta cagctcagcc tgcacagaag    180
cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg    240
cagaagcaaa gccccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag    300
a                                                                    301

```

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

```

atctgtatag ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag    60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca    120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc    180
acttcccagg ttttatgcaa aaattttggt aaattctata atggtgatat gcattcttta    240
ggaaacatat acatttttaa aaatctatct tatgtaagaa ctgacagacg aatttgcttt    300
g                                                                    301

```

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

```

caggtacaaa acgctattaa gtggccttaga atttgaacat ttgtggtctt tatttacttt    60
gcttcgtgtg tgggcaaagc aacatcttcc cttaaataat attaccaaga aaagcaagaa    120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat    180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt    240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt    300
a                                                                    301

```

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

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<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 285  
 acatcacat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60  
 aatgatcatt agtgttttaa aaaaaatact gaaaactcct tctgcatccc aatctctaac 120  
 caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg 180  
 attaaatatg tctgacttct tttgaggta cacgactagg caaatgctat ttacgatctg 240  
 caaaagctgt ttgaagagtc aaagcccca tgtgaacacg atttctggac cctgtaacag 300  
 t 301

<210> 286  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 286  
 taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct 60  
 tgtatattat ttttgcccta cagtggatca ttctagtagg aaaggacagt aagatttttt 120  
 atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatttct tccccaccca 180  
 aaaataagct accatatagc ttataagtct caaatttttg ctttttacta aaatgtgatt 240  
 gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttcccttg 300  
 t 301

<210> 287  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 287  
 tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg 60  
 cccagaagga acgtagagat cagatattac aacagctttg ttttgagggg tagaaatatg 120  
 aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc 180  
 ccgtgggtat ctctcccca gcttggctgc ctcattgtat cacagtattc catthttgtt 240  
 gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc 300  
 t 301

<210> 288  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 288  
 gtacaccta ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag 60  
 agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa 120  
 gatcttttaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180  
 aaaagcatct gcttttgtga ttttaatttag ctcattctgg cactggaaga atccaaacag 240  
 tctgccttaa ttttggtatg atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300  
 a 301

<210> 289  
 <211> 301

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<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 289  
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60  
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120  
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180  
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggccggcgaan aagagaaaga 240  
tgtgttttgt tttggactct ctgtgggtccc ttccaatgct gtgggtttcc aaccagngga 300  
a 301

<210> 290  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 290  
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60  
tgactgatct gttcatttct ctcacagctc ttaccccaaa aagcttttcc accctaagtg 120  
ttctgacctc ctttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180  
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctacgagtgc 240  
tgccctgaac aaaaacattt ctccatgtct ctttttcttc atgcctcaag taacagtgc 300  
a 301

<210> 291  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 291  
caggtaccaa tttcttctat cctagaaaca tttcatttta tggtgttgaa acataacaac 60  
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120  
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180  
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240  
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300  
a 301

<210> 292  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature

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<222> (1)...(301)  
 <223> n = A,T,C or G

<400> 292  
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60  
 tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc 120  
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaaatgat ttgcnagatg 180  
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240  
 tcactacaca cacagacccc acagtcctat atgccacaaa cacattttcca taacttgaaa 300  
 a 301

<210> 293  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 293  
 ggtaccaagt gctgggtgcc gctgttacc tgttctcact gaaaagtctg gctaattgctc 60  
 ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt 120  
 aacacaaaag tcactagcaa agtagcaaca gctttaagtc taaatacaaaa gctgttctgt 180  
 gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg 240  
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat 300  
 g 301

<210> 294  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 294  
 tgaccataa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag 60  
 attcaataaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag 120  
 ttttaactata gtcacaganc ttaaatatcc acattgtttt ctatgtctac tgaaaataag 180  
 ttcactactt ttctgggata ttcttttcaa aatcttatta aaattcctgg tattatcacc 240  
 cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt 300  
 t 301

<210> 295  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 295  
 gtactctttc tctccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta 60  
 cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180  
 actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt 240  
 tctcagaacc atttcacca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300  
 tctct 301

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<210> 296  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 296  
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60  
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120  
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180  
 ttgaaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300  
 c 301

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (300)  
 <223> n = A,T,C or G

<400> 297  
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120  
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240  
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (301)  
 <223> n = A,T,C or G

<400> 298  
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60  
 ggcactctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120  
 tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccacctc 180  
 gtccctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240  
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300  
 t 301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 299

gttttgagac	ggagtttcac	tcttggtgcc	cagactggac	tgcaatggca	gggtctctgc	60
tcaactgcacc	ctctgcctcc	caggttcgag	caattctcct	gcctcagcct	cccaggtagc	120
tgggattgca	ggctcacgcc	accataccca	gctaattttt	ttgtattttt	agtagagacg	180
gagtttcgcc	atgttggcc	gctggtctca	aactcctgac	ctcaagcgac	ctgcctgcct	240
cggcctccca	aagtgtgga	attataggca	tgagtcaaca	cgcccagcct	aaagatattt	300
t						301

&lt;210&gt; 300

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 300

attcagtttt	atttgcctgc	ccagtatctg	taaccaggag	tgccacaaaa	tcttgccaga	60
tatgtccac	accactggg	aaaggctccc	acctggctac	ttcctctatc	agctgggtca	120
gctgcattcc	acaaggttct	cagcctaata	agtttacta	cctgccagtc	tcaaaactta	180
gtaaagcaag	accatgacat	tccccacgg	aaatcagagt	ttgccccacc	gtcttggtac	240
tataaagcct	gcctctaaca	gtccttgctt	cttcacacca	atcccagagc	catcccccat	300
g						301

&lt;210&gt; 301

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 301

ttaaattttt	gagaggataa	aaaggacaaa	taatctagaa	atgtgtcttc	ttcagtctgc	60
agaggacccc	aggtctccaa	gcaaccacat	ggtaagggtc	atgaataatt	aaaagttggt	120
gggaactcac	aaagaccctc	agagctgaga	caccacaaac	agtgggagct	cacaaagacc	180
ctcagagctg	agacacccac	aacagtggga	gtcacaaaag	accctcagag	ctgagacacc	240
cacaacagca	cctcggttcag	ctgccacatg	tgtgaataag	gatgcaatgt	ccagaagtgt	300
t						301

&lt;210&gt; 302

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 302

aggtacacat	ttagcttggt	gtaaatgact	cacaaaactg	attttaaaat	caagttaatg	60
tgaattttga	aaattactac	ttaatcctaa	ttcacaataa	caatggcatt	aaggtttgac	120
ttgagttggt	tcttagtatt	atttatggta	aataggctct	taccacttgc	aaataactgg	180
ccacatcatt	aatgactgac	ttcccagtaa	ggctctctaa	ggggtaagta	ggaggatcca	240
caggatttga	gatgctaagg	ccccagagat	cgtttgatcc	aaccctctta	ttttcagagg	300
g						301

&lt;210&gt; 303

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 303

aggtaccaac	tgtggaaata	ggtagaggat	cattttttct	ttccatatca	actaagttgt	60
------------	------------	------------	------------	------------	------------	----

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```
<210> 304
<211> 301
<212> DNA
<213> Homo sapien
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```
<210> 305
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

```
<210> 306
<211> 8
<212> PRT
<213> Homo sapien
```

```
<210> 307
<211> 637
<212> DNA
<213> Homo sapien
```

<400> 307  
acaggggratg aagggaaagg gagaggatga ggaagccccc ctggggattt ggtttggtcc 60  
ttgtgatcag gtggtctatg gggccttatcc ctacaaaagaa gaatccagaa ataggggcac 120

```

attgaggaat gatacttgag cccaaagagc attcaatcat tgttttatTT gccttmtttt 180
cacaccattg gtgaggagg gattaccacc ctgggggttat gaagatgggt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgccacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacgggtgggg caaactctga 420
tttccgtggg ggaatgtcat ggtccttgctt tactaagttt tgagactggc aggtagtga 480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540
ggtggggagcc tttcccagtg ggtgtggggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaactg aatccttg 637

```

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

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tgctcagggg aagggttcata tgggactttc tactgcccac ggttctatac aggatataaa 120
ggngcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggctcaaag gatctcttac catgaaggtc tcagctaatt 300
cttgggctaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

```

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

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actttatagt ttaggctgga cattggaaaa aaaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa cttcttagc tcttgagaag tcaaagtcog 240
ggggaattta ttcttgcaa ttttaattgg actccttatg tgagagcagc ggctaccacg 300
ctgggggtgt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

```

acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg      60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt    120
taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa    180
gtcagacagt aagatttgtg ggaaatgggt tggtttgttg tatggtatgt attttagcaa    240
taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa    300
ttcctcaagg taggcatgat gaaggagggt tttagaggaga cacagacaca atgaactgac    360
ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac     420
atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc    480
atattttcac cccacaaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga    539

```

```

<210> 311
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

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<400> 311
caaatttgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta    120
catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa    180
attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg    240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa    300
aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc    360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc    420
acagcaagag cttctcatct aaacccttct cctttttagt atctgtgtat caagtataaa    480
agttctataa actgtagtn tcttatttta atccccaaag cacagt                      526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
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tcatttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct    120
ccatttctct ttccttcca cctgccagtt ttgctgactc tcaactgtgc atgagtgtaa    180
gcattaagga cttatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg    240
gcttcttagg aaaatatatt tcttccaaaa tcagtaggaa atctaaactt atccccctctt    300
tgcagatgtc tagcagcttc agacatttgg ttaagaaccc atgggaaaaa aaaaaatcct    360
tgctaattgt gtttcttttg taaaccanga ttcttatttg nctggtatag aatatcagct    420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt    480
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```

```

<210> 313
<211> 718

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<400>	313						
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a t a c a	g a g g t g a g a a	a t a a g a a a g g	c t g c t g a c t t	t a c c a t c t g a	g g c c a c a c a t		120
g a a a t	g g a g a t a a t t	a a c a t c a c t a	g a a a c a g c a a	g a t g a c a a t a	t a a t g t c t a a		180
y a c a t	g t t t t t g c a c	a t t t c c a g c c	c t t t t a a a t a	t c c a c a c a c a	c a g g a a g c a c		240
j a a g c	a c a g a g a t c c	c t g g g a g a a a	t g c c c g g c c g	c c a t c t t g g g	t c a t c g a t g a		300
r c c c t	g t g c c t g n t c	c e g c t t g t g a	g g g a a g g a c a	t t a g a a a a t g	a a t t g a t g t g		360
s a a a g	g a t g g c a g g a	a a a c a g a t c c	t g t t g t g g a t	a t t t a t t t g a	a c g g g a t t a c		420
i g a a a	t g a a g t c a c a	a a g t g a g c a t	t a c c a a t g a g	a g g a a a a c a g	a c g a g a a a a t		480
e g g t t	c a c a a g a c a t	g c a a c a a a c a	a a a t g g a a t a	c t g t g a t g a c	a c g a g c a g c c		540
f g g g a	g a g a t a c c a c	g g g g c a g a g g	t c a g g a t t c t	g g c c c t g c t g	c c t a a c t g t g		600
d a c c a	a t c a t t t c t a	t t t c t a c c t c	c a a a c a a g c t	g t n g a a t a t c	t g a c t t a c g g		660
n t q r c	c c a c a t t t t c	a t n a t c c a c c	c c n t c n t t t t	a a n n t t a n t c	c a a a n t g t		718

<400>	314						
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caaa	tatagctgta	gtacatgttt	tcattgggtg	agattaccac	aaatgcaagg		120
gtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa		180
cggt	gtccagccac	tgtgaaacat	gtccctttta	gattaacctc	gtggagcctc		240
gtatt	gctgaactgt	agtgcctctg	atcttgcttc	tgtctgtgaa	tctgtctgct		300
gcat	tctcttgtga	tgtcaaggac	caccacacag	atgacagcaa	tctgaatt		358

<400>	315						
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tgatg	atgaggacat	ggaatgggcc	ccaaggatg	gtctgtccaa	agaagcgagt		120
ccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac		180
ccagc	cccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttcctgaag		240
ctctg	tgtaaagagg	gtttgtcccc	ggggctctgt	cggttatttg	tctctgggctt		300
gcqcg	tatagtcaagc	acatggtqaa	gcagatgatg	t			341

<400> 316



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 cattcaggga gctctgggtg caatattagt t 151

<210> 317  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 317  
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 atcttcattt atctctggcc ttaaccctgg ctcctgaggc tgcggccagc agatcccagg 120  
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 318  
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60  
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120  
 tgggggctgt ttatcaggca gtgataaaca t 151

<210> 319  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 319  
 aactagtga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60  
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120  
 taagattggg tttatgtgat tttagtgggt a 151

<210> 320  
 <211> 150  
 <212> DNA  
 <213> Homo sapien

<400> 320  
 aactagtga tccactagtc cagtgtgggt gaattccatt gtgttggggt tctagatcgc 60  
 gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120  
 gagtgttcta cagcttacag taaataccat 151

<210> 321  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 321  
 agcaactttg tttttcatcc aggttatatt aggcttagga tttcctctca cactgcagtt 60  
 taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120  
 tgcctctgag aaatcaaagt cttcatacac t 151

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<210> 322  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 322  
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 tttgggcttg gtcagtttgc cacagggctt ggagatgggt acagtcttct ggcattcggc 120  
 attgtgcagg gctcgttca nacttcagt t 151

<210> 323  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 323  
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 nagactcant tactaccag tttgtggtt twtgggagaa atgtaactgg acagttagct 120  
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A,T,C or G

<400> 324  
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 agaagtgggt agctaaagga atccagggtg ttgggtggac tgtaataacc tttgatgaaa 120  
 agagttacta cgaatcccat cttggttcca gctatatcac tgacagcatg gtagaagact 180  
 gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240  
 ctcatcacagg gatatacaaaa taccctttgt gctaccagg ccctggggaa tcagggtgact 300  
 cacacaaatg caatagtttg tactgcatt tttacctgaa ccaaagctaa acccggtgtt 360  
 gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420  
 aaaaacgcac aagagcccct gccctgcct agctgangca c 461

<210> 325  
 <211> 400  
 <212> DNA  
 <213> Homo sapien

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Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met
1				5					10					15	
Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val
			20					25					30		
Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly
		35					40					45			
Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu
	50					55					60				
Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala
65					70					75					80

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp  
                     85                    90                    95  
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn  
                     100                    105                    110  
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro  
                     115                    120                    125  
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys  
                     130                    135                    140  
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly  
 145                    150                    155                    160  
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro  
                     165                    170                    175  
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala  
                     180                    185                    190  
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys  
                     195                    200                    205  
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
                     210                    215                    220

<210> 328  
 <211> 234  
 <212> DNA  
 <213> Homo sapien

<400> 328  
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 atccgcagtg ggtgctgtca gccacacact gtttccagaa ctctacacc atcgggctgg 180  
 gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcca 234

<210> 329  
 <211> 77  
 <212> PRT  
 <213> Homo sapien

<400> 329  
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser  
 1                    5                    10                    15  
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu  
                     20                    25                    30  
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr  
                     35                    40                    45  
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
                     50                    55                    60  
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala  
 65                    70                    75

<210> 330  
 <211> 70  
 <212> DNA  
 <213> Homo sapien

<400> 330  
 cccaacacaa tggccccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60

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gctgcagcca

70

<210> 331  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 331  
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu  
 1 5 10 15  
 Val Ser Gly Ser Cys Ser  
 20

<210> 332  
 <211> 2507  
 <212> DNA  
 <213> Homo sapien

<400> 332  
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 tgcccttctt tctgtatatg gctgcgcccc aaatcaggaa aatgctgtcc agtgggggtgt 120  
 gtacatcaac tgttcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180  
 tcgggaagga gacagccaaa gagctgggtc agagaggagc tcgagtatat ttagcttgcc 240  
 gggatgtgga aaagggggaa ttggtggcca aagagatcca gaccacgaca ggggaaccagc 300  
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 gcttcttagc tgaggaaaag cacctccacg ttttgatcaa caatgcagga gtgatgatgt 420  
 gtccgtactc gaagacagca gatggctttg agatgcacat aggagtcaac cacttgggtc 480  
 acttctctct aacctatctg ctgctagaga aactaaagga atcagcccca tcaaggatag 540  
 taaatgtgtc ttccctcgca catcacctgg gaaggatcca ctccataac ctgcagggcg 600  
 agaaattcta caatgcaggc ctggcctact gtcacagcaa gctagccaac atctcttca 660  
 cccaggaact ggcccgga gaataaaggct ctggcggtac gacgtattct gtacacctg 720  
 gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg tgggtggcttt 780  
 tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac tgtgccttaa 840  
 cagaaggtct tgagattcta agtgggaatc atttcagtga ctgtcatgtg gcatgggtct 900  
 ctgcccgaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt tgtgacctgc 960  
 tgggcctccc aatagactaa caggcagtg cagttggacc caagagaaga ctgcagcaga 1020  
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 agagagcaaaa accttccagc cttgcctgct tgggtgtccag ttaaaaactca gtgtactgcc 1140  
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 ctagagatat cataatagga taagaagacc ctcatatgac ctgcacagct ctttttctt 1260  
 ctgaaagaaa ctactacctt ggagaatcta agctatagca gggatgattt atgcaaattt 1320  
 gaactagctt ctttgttcac aattcagttc ctcccaacca accagtcttc acttcaagag 1380  
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&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

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&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 334

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<213> Homo sapien
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<220>  
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<212> DNA

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<210> 359
<211> 620
<212> DNA
<213> Homo sapien
```

```
<210> 360
<211> 431
<212> DNA
<213> Homo sapien
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<400> 360						
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aaaccttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240
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<400> 364

<400> 365

<400> 366

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&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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&lt;210&gt; 370

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 370

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```

<210> 371
<211> 1855
<212> DNA
<213> Homo sapien

```

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<223> n = A,T,C or G

```

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&lt;210&gt; 372

&lt;211&gt; 1059

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 372

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&lt;210&gt; 373

&lt;211&gt; 1155

&lt;212&gt; DNA

<400> 373

<210> 374

<212> DNA

<213> Home

<400> 374

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&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 376

```

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
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Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
          20          25          30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
          35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
          50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
          85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
          100          105          110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
          115          120          125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
          130          135          140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145          150          155          160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
          165          170          175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
          180          185          190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
          195          200          205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
210          215          220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225          230          235          240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
          245          250          255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
          260          265          270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
          275          280          285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
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Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305          310          315          320
Ser Met Leu Phe Leu Val Ile Ile Met
          325

```

&lt;210&gt; 377

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; VARIANT

096579.090600

&lt;222&gt; (1)...(148)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 377

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Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
      20          25          30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
 50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
      85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
      100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
      115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
      130          135          140
Lys Asn Lys Val
145

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&lt;210&gt; 378

&lt;211&gt; 1719

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 378

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Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1          5          10          15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
      20          25          30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
      35          40          45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50          55          60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65          70          75          80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
      85          90          95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
      100          105          110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
      115          120          125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
      130          135          140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145          150          155          160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
      165          170          175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu

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1045 1050 1055  
 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met  
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 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys  
 1075 1080 1085  
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr  
 1090 1095 1100  
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys  
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 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp  
 1125 1130 1135  
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His  
 1140 1145 1150  
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp  
 1155 1160 1165  
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg  
 1170 1175 1180  
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val  
 1185 1190 1195 1200  
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys  
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 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly  
 1220 1225 1230  
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
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 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr  
 1285 1290 1295  
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp  
 1300 1305 1310  
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val  
 1315 1320 1325  
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala  
 1330 1335 1340  
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala  
 1345 1350 1355 1360  
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn  
 1365 1370 1375  
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr  
 1380 1385 1390  
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr  
 1395 1400 1405  
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu  
 1410 1415 1420  
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
 1425 1430 1435 1440  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly

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 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu  
 1490                      1495                      1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505                      1510                      1515                      1520  
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser  
 1525                      1530                      1535  
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu  
 1540                      1545                      1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
 1555                      1560                      1565  
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe  
 1570                      1575                      1580  
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe  
 1585                      1590                      1595                      1600  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
 1605                      1610                      1615  
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro  
 1620                      1625                      1630  
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
 1635                      1640                      1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
 1650                      1655                      1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665                      1670                      1675                      1680  
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
 1685                      1690                      1695  
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
 1700                      1705                      1710  
 Met Lys His Gln Ser Gln Leu  
 1715

&lt;210&gt; 379

&lt;211&gt; 656

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 379

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
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 20                      25                      30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35                      40                      45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50                      55                      60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65                      70                      75                      80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85                      90                      95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100                      105                      110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115                      120                      125

Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu  
 370 375 380  
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys  
 385 390 395 400  
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu  
 405 410 415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420 425 430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435 440 445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450 455 460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465 470 475 480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485 490 495  
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500 505 510  
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys  
 515 520 525  
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly  
 530 535 540  
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser  
 545 550 555 560

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Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr  
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 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln  
                           580                          585                          590  
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln  
                           595                          600                          605  
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys  
                           610                          615                          620  
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile  
                           625                          630                          635                          640  
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
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<210> 380  
 <211> 671  
 <212> PRT  
 <213> Homo sapien

<400> 380  
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                           20                          25                          30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
                           35                          40                          45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
                           50                          55                          60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
                           65                          70                          75                          80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
                           85                          90                          95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
                           100                          105                          110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
                           115                          120                          125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
                           130                          135                          140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
                           145                          150                          155                          160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
                           165                          170                          175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
                           180                          185                          190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
                           195                          200                          205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
                           210                          215                          220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
                           225                          230                          235                          240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
                           245                          250                          255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
                           260                          265                          270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val

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		275						280						285					
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr				
	290					295					300								
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile				
305					310					315					320				
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu				
				325					330					335					
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val				
			340					345					350						
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile				
		355					360					365							
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu				
	370					375					380								
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys				
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Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu				
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Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn				
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Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro				
		435					440					445							
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu				
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Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu				
465					470					475					480				
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp				
				485					490					495					
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu				
			500					505					510						
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp				
		515					520					525							
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys				
	530					535					540								
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala				
545					550					555					560				
Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg				
				565					570					575					
Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His				
			580					585					590						
Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn				
		595					600					605							
Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln	Ile				
	610					615					620								
Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys				
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<210> 381
<211> 251
<212> DNA
<213> Homo sapien
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&lt;400&gt; 381

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ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggacca	ggactcacac	180
atcctggggc	tccaaggcag	aggagagggt	cctcaagaag	gtcaggagga	aaatccgtaa	240
caagcagtca	g					251

&lt;210&gt; 382

&lt;211&gt; 3279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

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gtggctccag	gccttgcccc	tgcttggggc	ctcaccagc	ctccctcaca	gtctcctggc	600
cctcagtctc	ttccctccac	tccatcctcc	atctggcctc	agtgggtcat	tctgatcact	660
gaactgacca	tacccagccc	tgcccacggc	cctccatggc	tccccaatgc	cctggagagg	720
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gagccttggt	ccctctgttg	gactccctgc	ccatattctt	gtgggagtgg	gttctggaga	960
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<210> 388
<211> 520
<212> DNA
<213> Homo sapiens
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<210> 389
<211> 365
<212> DNA
<213> Homo sapiens
```

```
<210> 390
<211> 221
<212> DNA
<213> Homo sapiens
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<400> 390						
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gctctangag	tctgancnga	ntcgctgccc	cantntgcga	naaggaaagg	cggagcttat	180
tcaaagctcta	gaggagattg	aggagtttaag	gctggatttc	a		221

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<210> 391
<211> 325
<212> DNA
<213> Homo sapiens
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<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

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 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naanttngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240  
 cactgcccag gaatcctaca gccagtaccc tgtcccagacg tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 antaccanga accgncatgn cttaanaacn ncctggtttn tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240  
 ctgaggatag agcgccgcgt cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 actagtccag tgtggtggaa ttgcgggccc cgtcgacgga caggtcagct gtctggctca 60  
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga tttaaattcag cctaaacggt 120  
 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaaggtct agtttgtcca tcagcattat catgatatca ggactgggta cttgggttaag 240  
 gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttgga 300  
 ggggtggttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360  
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcccttgggt tttgctaggt tgtgttgggt aaaaaaaaaa 480  
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540  
 ttttgcttat caaaaaaaaaa aaaaaa 566

<210> 394  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```

gaacatacat gtccccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattng gaccggggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggcttttaa ggagttttaa gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
aggggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt                                     384

```

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcatctc ctcactacag acctctgacc atgggacggt 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac                                     399

```

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

```

tggagtntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt                                     403

```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(100)

<223> n = A,T,C or G

```
<210> 398
<211> 278
<212> DNA
<213> Homo sapiens
```

<400>	398					
gcggccgcgt	cgacagcagt	tccgccagcg	ctcgcccctg	ggtggggatg	tgctgcacgc	60
ccacctggac	atctggaagt	cagcggcctg	gatgaaagag	cggacttcac	ctggggcgat	120
tcactactgt	gctctgacca	gtgaggagag	ctggaccgac	agcgaggtgg	actcatcatg	180
ctccgggcag	cccatccacc	tgtggcagtt	cctcaaggag	ttgctactca	agccccacag	240
ctatggccgc	ttcattangt	ggctcaacaa	ggagaagg			278

```
<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G
```

```
<210> 400
<211> 548
<212> DNA
<213> Homo sapiens
```

<400>	400					
acatcaacta	cttcttcatt	ttaagggtatg	gcagttccct	tcatcccctt	ttctgcctt	60
gtacatgtac	atgtatgaaa	tttccttctc	ttaccgaact	ctctccacac	atcacaaggt	120
caaagaacca	cacgcttaga	agggtaaagag	ggcaccctat	gaaatgaaat	ggtgatttct	180
tgagtctctt	tttccacgt	ttaaggggcc	atggcaggac	ttagagttgc	gagttaagac	240
tgcagagggc	tagagaatta	tttcatacag	gctttgaggc	cacccatgtc	acttatcccg	300
tataccctct	caccatcccc	ttgtctactc	tgatgcccc	aagatgcaac	tgggcagcta	360
gttggcccca	taattctggg	cctttgttgt	ttgttttaat	tacttgggca	tcccaggaag	420
ctttccagtg	atctcctacc	atgggcccc	ctcttgggat	caagcccctc	ccaggccctg	480
tccccagccc	ctcttqcccc	agcccacccg	cttgcccttg	tgctcagccc	tccattggg	540



agcaggtt

548

<210> 401  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

<400> 401  
 actgtttcca tggtatgttt ctacacattg ctacctcagt gtccttgga acttagcttt 60  
 tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120  
 taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180  
 tataaatgaa tgtgctgaag caaagtgcc atggtggcgg cgaagaagan aaagatgtgt 240  
 tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300  
 cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(407)  
 <223> n = A,T,C or G

<400> 402  
 atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60  
 tctcacatgc ggtggcatac atagggtcaa aataaaggaa tggagaaaaa tatttcaagc 120  
 aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180  
 gaataaagat aaaaaagaga aggacattac aaagggtggtc ctgacctttg ataaatctca 240  
 ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300  
 ttgtggagct tctccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360  
 gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

<210> 403  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 403  
 cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacaaaa 60  
 tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120  
 tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180  
 gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240

009060" 6225960

tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300  
gga 303

<210> 404  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 404  
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60  
attgttaatg cactcattta cctttacatg gtgaaagtcc tctcttgatc ctacaaacag 120  
acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttgg gcatgtgaat 180  
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405  
<211> 334  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (334)  
<223> n = A,T,C or G

<400> 405  
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtg tctggaggac 60  
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120  
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180  
ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240  
ctggtgcggt tgtgcctcca gcttctgctc agtgcctcat ggacagtgtc cagcccatgt 300  
cactctccac tctctcannng tggatccccac ccct 334

<210> 406  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (216)  
<223> n = A,T,C or G

<400> 406  
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60  
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120  
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180  
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407  
<211> 413  
<212> DNA  
<213> Homo sapiens

<400> 407

```

getgaattgc tagtatcatc tgcattcatt gaagcacaag aacttcacgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcac atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttcctggcta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggttttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcntatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120

```

```

cccaggggacc ttggaaacag ttggcactgt aaggtgcttg ctccccaaga cacatcctaa 180
aaggtgttgtt aatgggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a                                           261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatggt acctgacatt tctacaacac cccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactgggt cattgaattc ccaaactacc cangcaatta cccagccaac 240
a                                           241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtac cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tctctatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t                                           231

```

009060 "6225950

```
<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G
```

&lt;400&gt; 417

```

nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgatatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

&lt;210&gt; 418

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(328)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 418

```

tttttgggcg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcaactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tcctctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcacccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctgggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

&lt;210&gt; 419

&lt;211&gt; 389

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(389)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 419

```

ctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatatg 60
accctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttcct ctctgtggct ccattcatag cacagtgtgt gcaactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccgttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360
tggcagccac tcnggctgtg togaacggg 389

```

&lt;210&gt; 420

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

```

gttctctcta actcctgccca gaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggtt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180

```

005000"6225960

```

gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gaggctcata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagccccg 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatac acttgacagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcctgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcggggcgg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcatagacaa ggtgccggcg atcgcgcgcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttcgg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggcttggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcactgacag aacagggtct ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

<210> 424  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 424  
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120  
 cactgacaga acagggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180  
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240  
 ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300  
 cacgaaggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360  
 tccgtcgacg 370

<210> 425  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 425  
 aattgctatn nttttatttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaata 60  
 taacaacnca acatcaaggn aananaaca ggaatggntg actntgcata aatnggccga 120  
 anattatcca ttatnttaag ggttgacttc aggntacagc acacagacaa acatgcccag 180  
 gaggntntca ggaccgctcg atgtntntntg aggagg 216

<210> 426  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 426  
 cttccagtga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60  
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120  
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180  
 gctgtccttg tattttgatt aacctaatgg ctttcccagc acgactcgga ttcagctgga 240  
 gacatcacgg caacttttaa tgaaatgatt tgaagggcc aagaggca cttcccgta 300  
 ttaggcagtt catctgcaat gataacttct tggcagctga gctggtcgga gctgtggccc 360  
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420  
 ggtggatggc cttttcagct ttaacccaat ttgcactgcc ttggaagtgt agccaggaga 480  
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540  
 gtcccgctgg toccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427  
 <211> 107



<400> 430  
cttatcncaa tggggctccc aaacttggct gtgcagtgga aactccgggg gaattttgaa 60

```

gaacactgac acccatcttc caccctcgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttggtg atctttgcon 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
attcaaccag gatgttttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcttttac tctgctgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca ttctcttng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtcctttt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> n = A, T, C or G

ttcaactagc	anagaanact	gcttcagggg	gtgtaaaaatg	aaaggcttcc	acgcagttat	60
ctgattaaag	aacactaaga	gagggacaag	gctagaagcc	gcaggatgtc	tacactatag	120
caggcnctat	ttgggttggc	tggaggagct	gtggaaaaac	tggagagatt	ggcgctggag	180
atcgccgtgg	ctattctctn	ttgntattac	accagnagag	ntctctgtnt	gcccaattgg	240
tnnaaaaccg	ntatacaata	atgatagaat	aggacacaca	t		281

<211> 484

<213> Homo sapiens

ttttaaaata	agcatttagt	gtcagtcctc	tactgagtac	tctttctctc	ccctcctctg	60
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttcaactgtg	atgtatatattg	120
tgttgcaaaa	aaaaaaaaagt	gtctttgttt	aaaattactt	ggtttgtgaa	tocatcttgc	180
tttttcccca	ttggaactag	tcattaaccc	atctctgaac	tggtagaaaa	acatctgaag	240
agctagctta	tcagcatctg	acaggtgaat	tggatgggtc	tcagaaccat	ttcaccaga	300
cagcctgttt	ctatcctgtt	taataaatta	gtttgggttc	tctacatgca	taacaaaccc	360
tgctccaatc	tgtcacataa	aagtctgtga	cttgaagttt	agtcagcacc	cccaccaaac	420
tttatttttc	tatgtgtttt	ttgcaacata	tgagtgtttt	gaaaataaag	taccatgtc	480
ttta						484

<211> 424

<213> Homo sapiens

ggcgcgcctca	gagcaggtca	ctttctgcct	tccacgtcct	ccttcaagga	agcccatgt	60
gggtagcttt	caatatcgca	ggttcttact	cctctgcctc	tataagctca	aaccaccaa	120
cgatcgggca	agtaaaccct	ctccctcgcc	gacttcggaa	ctggcgagag	ttcagcgcag	180
atgggcctgt	ggggaggggg	caagatagat	gagggggagc	ggcatggtgc	ggggtgacct	240
cttgagaga	ggaataaggc	cacaagaggg	gctgccaccg	ccactaacgg	agatggcctt	300
ggtagagacc	tttgggggtc	tggaaacctt	ggactcccca	tgctctaact	cccacactct	360
gctatcagaa	acttaaaact	gaggattttc	tctgtttttc	actcgcaata	aattcagagc	420
aaac						424

<211> 667

<213> Homo sapiens

<221> misc feature

<223> n = A, T, C or G

accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60  
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120

```

agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cggccaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420
agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctccttggct agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag                                         667

```

```

<210> 437
<211> 693
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtaactct ctattttcac cctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc ttttagctttc 420
atgtgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc                                         693

```

```

<210> 438
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 438
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcca aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

```

<210> 439
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 439

```

gttcctnnta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420  
 aatttagtag t 431

<210> 440  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<400> 440  
 agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60  
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120  
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180  
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240  
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300  
 actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360  
 taaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420  
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480  
 tatatatatc atagcaaata agtcacttga tgagaacaag cta 523

<210> 441  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 441  
 gttcctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420  
 aatttagtag 430

<210> 442  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<400> 442  
 ctaagggaatt agtagtggtc ccatcacttg tttggagtgt gctatttctaa aagattttga 60  
 tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120  
 cttcacttct gatacttgta aattaactt ttattgcact tgttttgacc attagctat 180  
 atgtttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240  
 aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300  
 tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360  
 tc 362

<210> 443  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(624)  
 <223> n = A,T,C or G

<400> 443  
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60  
 ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120  
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180  
 tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300  
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360  
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420  
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480  
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540  
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaact 600  
 ttgtccctat ctgctaaaca gatc 624

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(425)  
 <223> n = A,T,C or G

<400> 444  
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60  
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
 ttcattgcta tagcataaca caaaatttgc ataagtgtg gtcagcaaat ccttgaatgc 180  
 tgcttaatgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240  
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300  
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360  
 ggaggcacca gggcataagt gagtagactt atggctcgacg cggccgcgaa tttagtagta 420  
 gtaga 425

<210> 445  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n = A,T,C or G

<400> 445

```
<210> 446
<211> 631
<212> DNA
<213> Homo sapiens
```

<400>	446						
acaaattaga	anaaagtgcc	agagaacacc	acataccttg	tccggaacat	tacaatggct	60	
tctgcatgca	tgggaagtgt	gagcattcta	tcaatatgca	ggagccatct	tgcaggtgtg	120	
atgctgggta	tactggacaa	cactgtgaaa	aaaaggacta	cagtgttcta	tacgttggtc	180	
ccggtcctgt	acgatttcag	tatgtcttaa	tcgcagctgt	gatttgaaca	attcagattg	240	
ctgtcatctg	tgtggtggtc	ctctgcatca	caagggccaa	actttaggta	atagcattgg	300	
actgagattt	gtaaaacttc	caaccttcca	ggaaatgcc	cagaagcaac	agaattcaca	360	
gacagaagca	aaatacaggg	cactacagtt	cagacaatac	aacaagagcg	tccacgaggt	420	
taatctaaag	ggagcatgtt	tcacagtggc	tggaactaccg	agagcttgga	ctacacaata	480	
cagttattata	gacaaaagaa	taagacaaga	ggtctacaca	tgttgccttg	catttggtggt	540	
aatctacacc	aatgaaaaca	tgtactacag	ctatatattga	ttatgtatgg	atatatttga	600	
aatagtatac	attgtcttga	tgttttttct	g			631	

```
<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G
```

<210> 448

<211> 93  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(93)  
 <223> n = A,T,C or G

<400> 448  
 tgctcgtggg tcattctgan nncgaactg acctgccag ccctgccgan ggccnccat 60  
 ggctccctag tgccctggag agganggggc tag 93

<210> 449  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(706)  
 <223> n = A,T,C or G

<400> 449  
 ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60  
 ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120  
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180  
 cggggacagc atcctgcaga tggtcgggcg cgtcccattc gccattcagg ctgcgcaact 240  
 gttgggaagg gcgatcgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300  
 gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcncga cgttgtaaaa 360  
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcagtcacg 420  
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480  
 cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540  
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600  
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660  
 gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 450  
 gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60  
 acagttttta aaggtaaaac aacataaaaa gaaatatacct atagtggaaa taagagagtc 120  
 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180  
 agcctaagta taagaacaac ctttggggag aaacctatcat ttgacagtga ggtacaattc 240  
 caagtcaggc agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300  
 agagacactg tcagagagtt aaaaagtgag ttctatccat gaggtgattc cacagtcttc 360  
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420  
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480  
 gcgaatttag tag 493

<210> 451



<211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 451  
 gggcgcgctcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60  
 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120  
 aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180  
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240  
 gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300  
 tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcaca 360  
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420  
 gttgcaatga gctgagatca ggcenctgcn ccccgcatg gatgacagag tgaaactcca 480  
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452  
 <211> 51  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(51)  
 <223> n = A,T,C or G

<400> 452  
 agacggtttc accnttaca cnccttttag gatgggnntt ggggagcaag c 51

<210> 453  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 453  
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60  
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaacccat 120  
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240  
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
 taccatgtc tttatta 317

<210> 454  
 <211> 231  
 <212> DNA

<213> Homo sapiens

<400> 454

```
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctctc acaatttcat gaacaacagc t 231
```

<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

```
taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agtcacaat acagggtctc tttctcctct a 231
```

<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

```
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggt attattcttg gagaaacct gtctgtttac tgtaaccttt 120
tgcactcaaa ttccctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
ccttttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaag t 231
```

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (231)

<223> n = A,T,C or G

<400> 457

```
cgaggtagccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

```
aggctctgggt cccccactt ccaactccct ctactctctc taggactggg ctgggcccaag 60
agaagagggg tgggttagga agccgttgag acctgaagcc ccaccctcta ccttccttca 120
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 gtggggttca gtgaggagtg ggaaattggt tcagcagAAC caagccgttg ggtgaataag 180  
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 <213> Homo sapiens

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 aggatggcac aattttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180  
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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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<211> 515
<212> DNA
<213> Homo sapiens

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<223> n = A,T,C or G

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<212> DNA
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<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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<211> 2414
<212> DNA
<213> Homo sapiens

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<220>
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<222> (33)
<223> n=A,T,C or G

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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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His	Tyr	His	Arg	Asp	Thr	Asp	Thr	Arg	Arg	His	His	His	Met	Asp	Thr	20	25	30	
Leu	Ser	His	Tyr	His	Arg	Asp	Thr	Arg	His	His	Thr	Val	Thr	Trp	Thr	35	40	45	
His	His	His	Thr	His	Glu	His	Thr	Asp	Thr	Leu	Pro	Tyr	Gly	His	Trp	50	55	60	
His	Thr	His	Cys	His	Thr	Val	Thr	Trp	Thr	His	Leu	His	Thr	Ile	Thr	65	70	75	80
Pro	Pro	His	Thr	Leu	Pro	Val	Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	85	90	95	
Thr	Asp	Thr	Gln	Asn	Thr	Val	Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	100	105	110	
Pro	Pro	Leu	Trp	Cys	Arg	Leu	Asn	Tyr	Pro	Ala	Gly	Gly	Thr	Ala	Val	115	120	125	
Ala	Tyr	Ser	Cys	Leu	Ser	Asp	Trp	Leu	Ser	Pro	Gln					130	135	140	

<210> 478

<211> 143

<212> PRT

<213> Homo sapiens

009060" 6424960

&lt;400&gt; 478

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
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Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
                           20                          25                          30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr  
                           35                          40                          45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
                           50                          55                          60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
                           65                          70                          75                          80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser  
                           85                          90                          95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp  
                           100                          105                          110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser  
                           115                          120                          125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val  
                           130                          135                          140

&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
                           5                          10                          15

Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
                           20                          25                          30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr  
                           35                          40                          45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
                           50                          55                          60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
                           65                          70                          75                          80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser  
                           85                          90                          95

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val

009060"024960

100 105 110  
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val  
 115 120 125  
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
 130 135 140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
 145 150 155 160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
 165 170 175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp  
 180 185 190  
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
 195 200 205  
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val  
 210 215 220  
  
 <210> 480  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 480  
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 5 10 15  
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr  
 20 25 30  
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg  
 35 40 45  
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly  
 50 55 60  
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln  
 65 70 75 80  
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys  
 85 90 95  
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
 100 105 110  
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
 115 120 125

009060"622960

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<210> 481
<211> 167
<212> PRT
<213> Homo sapiens
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Trp Leu Ser Arg Gly Arg Pro  
165

<400> 482  
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val



5 10 15  
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu  
 20 25 30  
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg  
 35 40 45  
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly  
 50 55 60  
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe  
 65 70 75 80  
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr  
 85 90 95  
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly  
 100 105 110  
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys  
 115 120 125  
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly  
 130 135 140  
  
 <210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 483  
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
 5 10 15  
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
 20 25 30  
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 35 40 45  
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
 50 55 60  
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
 65 70 75 80  
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
 85 90 95  
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
 100 105 110

009060"6225950

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val  
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
 130 135 140

<210> 484  
 <211> 30  
 <212> PRT  
 <213> Homo Sapien

<400> 484  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 485  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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31

<210> 486  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 486  
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27

<210> 487  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 487  
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36

<210> 488  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

005060"6425950

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 488

gggaagcttc ttccccggct gcaccagctg tgc

33

&lt;210&gt; 489

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

&lt;210&gt; 490

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu	Ser	His	Ser												
				20											

&lt;210&gt; 491

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr	Gly	Phe	Thr												
				20											

&lt;210&gt; 492

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

009060"6223950

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

&lt;210&gt; 493

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

&lt;210&gt; 494

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5					10					15	
Leu	Met	Ile	Ser												
			20												

&lt;210&gt; 495

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

&lt;210&gt; 496

&lt;211&gt; 21

005060" 6225950

<212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 496  
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 1 5 10 15  
 Pro Pro Pro Pro Ala  
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<210> 497  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 497  
 Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val  
 1 5 10 15  
 Ser Val Arg Val  
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<210> 498  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 498  
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 Val Pro Gly Arg  
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<210> 499  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 499  
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 Ser Ala Phe Leu  
 20

009060" 6.222990

<210> 500  
 <211> 20  
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 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
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 Gly Ser Ile Val  
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<210> 501  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
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 1 5 10 15  
 Val Ser Ala Ala  
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<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
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 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
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 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc 180  
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 gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtgggtg 360  
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<210> 503  
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 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature

<222> (1)...(379)  
 <223> n=A,T,C or G

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 tntgtgccag agggggggttt aattataaag acatttgggg cccaggcacc ctgggtcacgc 360  
 tntccttagg gcaacctaa 379

<210> 504  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 504  
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 1 5 10 15  
 Asn Ser Ala

<210> 505  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 505  
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr  
 1 5 10 15  
 Asn Thr Ala Asn  
 20

<210> 506  
 <211> 407  
 <212> DNA  
 <213> Homo Sapien

<400> 506  
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 accgtctctg gattctccct cagtagcaat gcaatgatct gggctccgca ggctccaggg 180  
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 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360  
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<400> 510  
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
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<210> 511  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys  
 1 5 10 15

<210> 512  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 512  
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 1 5 10 15

<210> 513  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 513  
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu  
 1 5 10 15

<210> 514  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 514  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

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<210> 515  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 515  
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 1 5 10 15

<210> 516  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 516  
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln  
 1 5 10 15

<210> 517  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 517  
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 1 5 10 15

<210> 518  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 518  
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 1 5 10 15

<210> 519  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>

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<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
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Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
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			20				25								

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
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Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5				10						15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

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gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	240
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggt	ggaggccagc	300

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<210> 525
<211> 254
<212> PRT
<213> Homo sapien
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<210> 526
<211> 963
<212> DNA
<213> Homo sapiens
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<400> 526

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aactgcatcg tgggtcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
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tga

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<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile  
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Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser  
20 25 30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val  
35 40 45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
50 55 60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
65 70 75 80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
85 90 95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
100 105 110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
115 120 125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
130 135 140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
145 150 155 160

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Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165 170 175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 260 265 270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

<210> 528  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 528  
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<210> 529  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 529  
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<210> 530  
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 <212> DNA  
 <213> Homo sapiens

<400> 530  
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<210> 531  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

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<400> 531
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<210> 532  
 <211> 292



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 532

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Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
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Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
              20              25              30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
              35              40              45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
              50              55              60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
              65              70              75              80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
              85              90              95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
              100             105             110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
              115             120             125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
              130             135             140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
              145             150             155             160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
              165             170             175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
              180             185             190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
              195             200             205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
              210             215             220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
              225             230             235             240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
              245             250             255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
              260             265             270

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003050 " 6225960

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
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Val Ile Ile Met  
 290

<210> 533  
 <211> 801  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
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<210> 534  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<400> 534  
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Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala  
 20 25 30

Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val  
 35 40 45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His  
 50 55 60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp  
 65 70 75 80

Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln  
 85 90 95

Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn

003060"022590

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Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu		
115	120	125
Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys		
130	135	140
Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala		
145	150	155
		160
Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr		
	165	170
		175
Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser		
	180	185
		190
Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu		
	195	200
		205
Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys		
	210	215
		220
Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr		
	225	230
		235
		240
Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu		
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		255
Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro		
	260	265

&lt;210&gt; 535

&lt;211&gt; 6082

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

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&lt;211&gt; 1228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

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Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu

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Cys	Ala	Gly	Met	Arg	Leu	Arg	Val	Ala	Met	Cys	His	Met	Ile	Tyr	Arg	
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Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
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Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
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Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
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Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
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Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
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Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
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His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
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Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
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Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
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Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
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Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr

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Asp	Trp	Trp	Leu	Ser	Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val
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Thr	Val	Asn	Gly	Gly	Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp
705					710					715					720
Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly
				725					730					735	
Ile	Ala	Arg	Ser	Leu	Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln
			740					745					750		
Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu
	755						760					765			
Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys
	770					775					780				
Asp	Ile	Gly	His	Leu	Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe

785		790		795		800
Ile Gln Thr Leu	Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala					
	805			810		815
Val Ile Pro Trp	Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe					
	820		825			830
Ile Phe Leu Arg Arg Tyr Phe	Leu Glu Thr Ser Arg Asp Val Lys Arg					
	835		840		845	
Leu Glu Ser Thr Thr Arg	Ser Pro Val Phe Ser His Leu Ser Ser Ser					
	850		855		860	
Leu Gln Gly Leu Trp Thr	Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys					
	865		870		875	880
Gln Glu Leu Phe Asp Ala His	Gln Asp Leu His Ser Glu Ala Trp Phe					
	885		890			895
Leu Phe Leu Thr Thr Ser Arg	Trp Phe Ala Val Arg Leu Asp Ala Ile					
	900		905			910
Cys Ala Met Phe Val Ile Ile	Val Ala Phe Gly Ser Leu Ile Leu Ala					
	915		920		925	
Lys Thr Leu Asp Ala Gly	Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu					
	930		935		940	
Thr Leu Met Gly Met Phe	Gln Trp Cys Val Arg Gln Ser Ala Glu Val					
	945		950		955	960
Glu Asn Met Met Ile Ser	Val Glu Arg Val Ile Glu Tyr Thr Asp Leu					
	965		970			975
Glu Lys Glu Ala Pro Trp	Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp					
	980		985			990
Pro His Glu Gly Val Ile	Ile Phe Asp Asn Val Asn Phe Met Tyr Ser					
	995		1000		1005	
Pro Gly Gly Pro Leu Val	Leu Lys His Leu Thr Ala Leu Ile Lys Ser					
	1010		1015		1020	
Gln Glu Lys Val Gly	Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser					
	1025		1030		1035	1040
Leu Ile Ser Ala Leu Phe	Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp					
	1045		1050			1055
Ile Asp Lys Ile Leu Thr	Thr Glu Ile Gly Leu His Asp Leu Arg Lys					
	1060		1065		1070	
Lys Met Ser Ile Ile	Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met					

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1075	1080	1085
Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp 1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro 1105	1110	1115 1120
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val 1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn 1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr 1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr 1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys 1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr 1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln 1220	1225	1230
Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg 1235	1240	1245
Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser 1250	1255	1260

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 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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Ala Val Val Thr Ala Ser Ala Ala Leu

1

5

&lt;210&gt; 541

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu

5

10

&lt;210&gt; 542

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

5

10

15

&lt;210&gt; 543

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val

5

10

&lt;210&gt; 544

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe

5

10

15

Met Thr

&lt;210&gt; 545

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 545

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Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
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Ser Val

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 <212> PRT  
 <213> Homo sapiens

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Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys  
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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
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<210> 548  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 548  
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu  
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Glu Cys

<210> 549  
 <211> 18

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<212> PRT  
 <213> Homo sapiens

<400> 549  
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Gln Ala

<210> 550  
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 <212> PRT  
 <213> Homo sapiens

<400> 550  
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<210> 551  
 <211> 11  
 <212> PRT  
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<210> 552  
 <211> 2577  
 <212> DNA  
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<212> PRT
<213> Homo sapiens
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<211> 81
<212> PRT
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Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
      20              25              30

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      35              40              45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
      50              55              60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg

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80

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<211> 54
<212> PRT
<213> Homo sapiens
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<400> 557  
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Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu  
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Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
35 40 45

Gly Phe His Ile Arg Phe  
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<223> Xaa = Any amino acid
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20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His  
35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys  
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Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr  
65 70 75

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<212> PRT  
 <213> Homo sapiens

<400> 559  
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                           20                          25                          30  
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
                           35                          40                          45  
 Pro Arg  
       50

<210> 560  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens  
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 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
                           20                          25                          30  
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
                           35                          40                          45  
 Thr Asp Leu Phe Leu Pro Pro Leu  
       50                          55

<210> 561  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
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<400> 561  
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 Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser  
                           20                          25                          30  
 Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn

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35

40

45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn  
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<210> 562  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (1)...(59)  
 <223> Xaa = Any amino acid

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 Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu  
 20 25 30  
 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val  
 35 40 45  
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro  
 50 55

<210> 563  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro  
 5 10 15  
 Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His  
 20 25 30  
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met  
 35 40 45  
 Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg  
 50 55 60  
 Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg  
 65 70 75

<210> 564  
 <211> 64

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<212> PRT  
 <213> Homo sapiens

<400> 564  
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                     20                    25                    30  
 Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser  
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<210> 565  
 <211> 57  
 <212> PRT  
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<220>  
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                     20                    25                    30  
 Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu  
                     35                    40                    45  
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<210> 566  
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 <212> PRT  
 <213> Homo sapiens

<400> 566  
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 Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His  
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 Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro

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35

40

45

Leu Lys Leu Val Leu Leu Pro  
 50 55

<210> 567  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 567  
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Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile  
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Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile  
 35 40 45

Phe Arg Thr  
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<210> 568  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 568  
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Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu  
 20 25 30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr  
 35 40 45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp  
 50 55 60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu  
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<210> 569  
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 <212> DNA  
 <213> Homo sapiens

<400> 569

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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 ggtaatttat aaagaaaaga ggtttaatga ctcacagttc cgcatggctg gagaggcctc 540  
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 ggccctgttg ccaggtgtg agtgacgtgg catgatctca gctcactgca acctctgcct 720  
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 ggctggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgtctg 900  
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<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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      20              25              30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
      35              40              45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
      50              55              60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
      65              70              75              80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
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Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro

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<210> 574  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

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                                  20                      25                      30  
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
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<210> 575  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
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                                  20                      25                      30  
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly  
                                  35                      40                      45  
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
                                  50                      55                      60  
 Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys  
       65                      70                      75

<210> 576  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

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His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr  
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Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr  
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Gln Pro His  
           50

<210> 579  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 579  
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu  
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Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr  
                   20                                  25                                  30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His  
                   35                                  40                                  45

Ile Ala Lys Val Tyr Gln Pro His  
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<210> 580  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
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Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
                   20                                  25                                  30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
           35                                  40                                  45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
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Phe Ile His  
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<210> 581  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 581

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Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu  
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Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser  
                           20                          25                          30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala  
                           35                          40                          45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu  
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<210> 582  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
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Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val  
                           20                          25                          30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
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Leu Gly Val  
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<210> 583  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
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Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                           20                          25                          30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                           35                          40                          45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
           50                          55                          60

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<210> 584  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
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 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                   20                          25                          30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
           35                          40                          45  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
       50                          55                          60  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
       65                          70                          75

<210> 585  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 585  
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu  
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           20                          25                          30  
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu  
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 Leu Phe  
       50

<210> 586  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
       20                          25                          30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser

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35

40

45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
 50 55 60

<210> 587  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

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<210> 588  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
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Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys  
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Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln  
 35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys  
 50 55 60

005529 09060

Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr  
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Ile

<210> 589  
 <211> 157  
 <212> PRT  
 <213> Homo sapiens

<400> 589  
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 20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu  
 35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro  
 50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg  
 65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile  
 85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser  
 100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp  
 115 120 125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly  
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Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn  
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<210> 590  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<400> 590  
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Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr  
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 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys  
 35 40 45  
 Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys  
 50 55 60  
 Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly  
 65 70 75 80  
 Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln  
 85 90 95  
 Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala  
 100 105 110  
 Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser  
 115 120 125  
 Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys  
 130 135 140  
 Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser  
 145 150 155 160  
 Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp  
 165 170 175  
 Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile  
 180 185 190  
 Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr  
 195 200 205  
 Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala  
 210 215 220  
 Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu  
 225 230 235 240  
 His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn  
 245 250 255  
 Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His  
 260 265 270  
 Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val  
 275 280 285  
 Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile  
 290 295 300

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Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg  
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser  
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Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
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<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

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aaacagacaa	aaaatattgt	acaacattgc	acccagtgtc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgctctaata	tgttatggca	aatggatgtc	240
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<211> 188

<212> PRT

<213> Homo sapien

<400> 592

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			20					25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40				45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50				55						60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70					75				80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90						95	
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100					105					110		
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
			115					120					125		
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
			130				135				140				
Ala	Phe	Gln	Lys	Phe	Leu	Asn	Gln	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly
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Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg  
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 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys  
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<210> 593  
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 <212> DNA  
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 gtccttagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180  
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<210> 594  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <223> n = A,T,C or G

<400> 594  
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<210> 595  
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<220>  
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<400> 595  
 agnctgctgn tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60  
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt 120

0099060 "6225960

```

atgccangag cangtgcacc agtcccaact angagncccn ggcatgntac atcttcttcc 180
acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncncttggt 240
tc 242

```

```

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

```

```

<400> 596
accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatattt 60
gaaagctttt taaatttttt ctttaagaag attttagatg cttatcactg agtaccagag 120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg 240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300
tcctggtgct gacccagggc cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360
gcagtggccc ctttccatcc aacttggaac tatttcagta ttttaccacc aattcagcca 420
ttcccttggt cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa 480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctcttgag aattc 535

```

```

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

```

```

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60
tntntaant ttggggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120
attnctotta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag 180
gnaacaagcc acgggngggag tcacaaacat atattcttta ctctcataat ccgtnnacac 240
naactnttgn acttgac 257

```

```

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

```

```

<400> 598
nntggntacc gtcnaaactt nncttggtac ccgagctcgg atccactagt ccagtgtggt 60

```





nnagcaaggc nggganttgg ggactcgaaa tggtagagtt gggctgggga tcgcccttgt 480  
 tacataaaaag ncgtccagaa gagggacggg tacaggcnng ganctccaaa ggtcagtcgc 540  
 tgccatt 547

<210> 602  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 602  
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattcga gtccctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120  
 gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgccctgct 180  
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctcgTTTTga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300  
 tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaatTT 420  
 cagggttttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccaact 480  
 gctttttacaa atcatttttTc tcttctaggT atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaatttttaa tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 603  
 <211> 817  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 603  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtccataaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgcgattgc tttttttttt tottaaatac cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtctc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540  
 tgcacttagg aggtatcgca agcgttttct ggattaaatt ccagctagc ttgcttgctt 600  
 agcagggggc ggnaaanaag acatctgcag cctagggag aaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720  
 ttgggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780

817

```
<220>  
<221> misc_feature  
<222> (1)...(694)  
<223> n = A,T,C or G
```

```
<210> 605
<211> 678
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 606
<211> 263
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(263)  
 <223> n = A,T,C or G

<400> 606  
 gtggggtcng cancagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60  
 tctagtcac tgtgntcaaa ttccattgtg tgggggccnc tcgcctcggc canagatctg 120  
 agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180  
 caactcgacc ggcagcgan ggctggcaga antgngcgcc tnnctcattc ctacgngtn 240  
 ngccgcagga aggangacag gcc 263

<210> 607  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 607  
 ccatgtgggt cccggttgtc tt 22

<210> 608  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 608  
 gataggggtg ctcaggggtt gg 22

<210> 609  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 609  
 gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

009060"6226960

<400> 610  
ccttgtccag atagcccagt agctgac 27

<210> 611  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 611  
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 612  
gcacatgggt cactgcccc gcttttgccc cctgtccagc 40

<210> 613  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 613  
gccgctcgag ttagaattcg gggttggcca cgatggtg 38

<210> 614  
<211> 53  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 614  
cgcggggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

009060" 6225960

<400> 615  
gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616  
<211> 1350  
<212> DNA  
<213> Homo sapien

<400> 616  
atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcgagccc 60  
tggcaggcgg cactggatcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatccg 120  
cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180  
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300  
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360  
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac 480  
ccgctgtacc accccagcat gttctgcgcc ggcggagggc aagaccagaa ggactcctgc 540  
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600  
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc 660  
actgagtggg tagagaaaac cgtccaggcc agtattgtgg gaggtctggg gtgcgagaag 720  
cattcccaac cctggcagggt gcttgtggcc tctcgtggca gggcagtctg cggcgggtgtt 780  
ctggtgcacc ccagtgagggt cctcacagct gccactgca tcaggaacaa aagcgtgatc 840  
ttgctgggtc ggcacagcct gtttcacatc gaagacacag gccaggtatt tcaggtcagc 900  
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960  
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg 1020  
gatgctgtga aggtcatgga cctgcccacc caggagccag cactggggac cacctgctac 1080  
gcctcaggct ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt 1140  
gtggacctcc atgttatctc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200  
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260  
gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320  
gacaccatcg tggccaacct cgaattctaa 1350

<210> 617  
<211> 449  
<212> PRT  
<213> Homo sapien

<400> 617  
Met His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro  
1 5 10 15  
His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe  
20 25 30  
Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
35 40 45  
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu  
50 55 60  
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val  
65 70 75 80  
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu  
85 90 95  
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile  
100 105 110

009060" 15225960



<400> 618  
 ctgtgctgag aacccaaaagc tatgancact gctttttccaa atgtccataa naccaacatt 60  
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120  
 tggcctactg aacctaattg gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180  
 ggcngataac agtaccacct gntctgggtc ctanccccc gacccttaca gtctaactgg 240  
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300  
 gctncactta tntattaagg ngctctaaga cttagaaach aaangcantg ctgagangat 360  
 tcaaatatga ngggggnac tttnc 385

<210> 619  
 <211> 869  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(869)  
 <223> n = A,T,C or G

<400> 619  
 gatatcccgga gaattcgcgga ccgcgctcgac ctctacttgt ttagacataa atgcagtcta 60  
 gcattaaaga tccttttaaaa aaatgttttc ccaatgggta aaagacaagc tcaaataaat 120  
 gaactctcat acatatgccca aaattgatga gtagataaat atttcagtag gtagttacta 180  
 gctttctgtg tatgagtaaa catatgggag aaatttataa cactaaagta gactcaatga 240  
 aagcatagta tcctatgtat tcgtttttca gaaatgtcta atgaaggag gaaacaatga 300  
 atgaatgccc ttattcctct tagagtgtcg ggacatgggt ttgcctgaaa acttcatgtg 360  
 aattttatat tttgctacac attacaccca tcttagactt atacgtataa gacataaggc 420  
 atatcttatg tcttacatgt ataataatct aagcagaaca aaaaataacg aaatattttc 480  
 ttccccaat ttttgagaca gatggatttt ccggaaagat gtgttttagct tttaatcctg 540  
 tggttttgtg taccacctgg cacactagag tgttgctcta attcagttag ttgtaactct 600  
 ggggtgaacag tggaaatact aggggtacatt ttaaaaatgc taatgctcgg gcctcgctga 660  
 agaccaaatt aattggaatc tctgngggng gnattgatct ttttataatc tttctanang 720  
 attctaattg gcttccaggga atgaaaacch ctgntggagc tnggaacctt cctttagttt 780  
 ggagaaaccc cgatgagggt ntnttaggcn ccgcctnttt ttggcctggg cttccccctt 840  
 tatntnttt tgggaanggn cnaattttt 869

<210> 620  
 <211> 339  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(339)  
 <223> n = A,T,C or G

<400> 620  
 gngcgggcct cnccggtgctt gctctcgctg ccgacgctct ttttccacca gctgtaggan 60  
 aagcccgaag accactgggc ccccgggtag cccaagtacc actgggtctc ctgggtcctg 120  
 acgctncggg tcttcctcgt ggcgtagact gccagcttcg gagaccctc agccctccc 180  
 cgcttttctc caccacagga ggccatcagt agcgagctac tgcctcggcc acaacctccc 240  
 agcangatag ccccggtgtt ccaatctcgc aaaggaggac cgccnagccc gaaatgccna 300  
 gcccagcnat cactgccacg ccgagccnag cgctcgtgc 339



```
<220>
<221> misc_feature
<222> (1)...(681)
<223> n = A,T,C or G
```

```

<400> 623
aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga      60
aaangctcan gcagcccggc tggccgcgcg cgctcctccc cccaggaaag ccaangtgga      120
ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttgggcccgcg      180
gctgccangg gcggaagtgg gtgtccccan gtctcagccc caaggetgcc cctcacaaag      240
cactggtggt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang      300
cccaccgtgg gaatccaggt ccccaggtgg actgectgcc ttgccctcac tgcccactct      360
gcccacactt ccctgcctag anaccgggaa ggggctgtgt cggtantggt gcccacctgg      420
atgtggcagc accgactgtg ggggtggacc tggccttgcc ggtgcaaaa gtggggggccc      480
ngggaaaagc acctgaagtg gccctgaaaa atccccctt aattttnccc caatttgggg      540
ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcacccttaa ggccagggtg      600
aaaaggtccc aaaattccaa tnccaccnt ttgggcttnc ctcttggaac cccggccccc      660
tctcntgaan ttttaaaaaa n                                           681

```

```

<210> 624
<211> 661
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(661)
<223> n = A,T,C or G

```

```

<400> 624
attggtctta ctgtaccacc ggggtggaaat cgatggccgc ggcgctctaaa tatccgattt      60
tttttttttt tctctttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa      120
aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggttg      180
ttgttacctt ttgggtcttg ctctgaacat gaaattnatc tcaagggatt ngattttctgg      240
acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg      300
gntgacagnt acctcctagc ccatancttc ctatcttggg aaacaaacct aacaactacg      360
tgtaccttcc atagatctct gattgagtct cagtatncgc ttgctcatgg gcgattcact      420
tgaatccgtn attggtgcca acaatcctga ctcatgggnn aatggatcct atcacgttcc      480
cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc      540
gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaancctga tcatgatcna      600
gggtcatgga ctcttatcag ggggggttggg ccngcttctt ttttcnnacc ttggtaaaac      660
c                                           661

```

```

<210> 625
<211> 181
<212> DNA
<213> Homo sapien

```

```

<400> 625
gcaacaatca gatcatgtta aagtaaactc ccattgccct ggatcacttc aggatttaaat      60
tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                           181

```

```

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

```



646

```
<220>  
<221> misc_feature  
<222> (1)...(617)  
<223> n = A,T,C or G
```

```
<210> 630
<211> 644
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G
```

```
<210> 631
<211> 526
<212> DNA
<213> Homo sapien
```

<220>



tggcggatat	gggggcgggt	cgctctctta	ttcttctata	ccacgtcaat	aggaatgtag	360
atatacctag	atgttcccgt	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttccccct	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtcnt	aagatagtc	ggatattagg	600
atattagtta	tatgacgttc	gacgggacgg				630

<210> 634  
 <211> 647  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (647)  
 <223> n = A,T,C or G

<400> 634						
ccntcggctt	gggttttttt	ctgaccccc	cccccccc	cctccactaa	gancttaacc	60
caaccctata	gtttactcgt	ataggggaat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttagt	tttatccggc	gttatagggc	ttagtctcgg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttta	acgaggtcac	gggatagcgc	gtaccctttc	taaggttctt	300
ggaaagctat	tcgttattta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggtcggtc	aaaactagtg	tagtaccttt	acctcctcga	420
aagttatagt	cgaaacaacg	tattagtcga	aattatagcg	gatagatcga	gacggttctt	480
tctcgggttc	tcagccggta	atccctctat	ttgggggtct	tctccctctt	cccctttgtc	540
ttccgcctta	gcttccaagg	ttcctcggaa	gcgaggggtt	ctacttaagt	cgntagcggt	600
ccttataaac	cncctacagg	cagaccccc	tgtaaacggc	tcggggt		647

<210> 635  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (645)  
 <223> n = A,T,C or G

<400> 635						
ccttcggctt	gggttttttt	ctgagcccc	cccccccc	cccgaactc	gccttacctt	60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	ccggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240
ataaaatcca	gtcaagcccc	acggttaagc	ggggtagggc	taggcgaaga	ggcaggaacc	300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	ccttctaaag	360
tcgggggcaa	cgggttaaagc	acgcctctaa	agtactactc	gtttcgagaa	ggggtagtca	420
tctcccgcat	agagactctc	gcgtatatca	actcgcacgc	cttctagcat	tccgacggtc	480
gcccgcggct	acatatcttg	cggattagct	ccgagggact	ataggggttaa	ttagtctagt	540
aaattctctt	agaggatagt	cggggtcgta	gttaggcagt	acgaggggac	atggnctgcg	600
tcgtgctcta	ccttgacagc	atactcttat	aaacatcttt	ttcct		645

<210> 636

<211> 643  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(643)  
 <223> n = A,T,C or G

<400> 636  
 ccttcggctt ggggtttttt ctgaccccc ccccccccc cctagcggaa aacaatcccc 60  
 accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120  
 cctggctccc tctagnggc tttacgaacg tccctcctct tcttacggct cggaagtggg 180  
 tacgggttaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240  
 gtccnncngt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttatnta 300  
 tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360  
 agggccgacg tncccgctag acaggctaca gctagnggag gtaccgcctc cgactantcc 420  
 gttgnttccg acaaggnggt ttcgggttaac tccacaaact cctccgccga ctctanggtg 480  
 gggacggcag ttccnncgtt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540  
 cnttttaaca taggttattc cgtttagggt cttgcggggc cgtgggggta gtncnccggc 600  
 gcgttnntat cggcgatttt ccgcagtttc cgtttccggg tnt 643

<210> 637  
 <211> 631  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(631)  
 <223> n = A,T,C or G

<400> 637  
 ggggtntctc atttggtggg actttttggg tcgtaggaac cggatatgnag gagtaggagt 60  
 cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120  
 taatcgttta cgtcggggtg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180  
 tcgcatatag gtccccttac ttcggcgatc tcgtcttctg tcggttaggt tattattggt 240  
 catccttcgc attagtagta gggttgggtc gataaatcga tagctattct ttagaattcg 300  
 tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360  
 acggttattt tgtcgtcgac gtaggtgtcg tttacgggag tttcgtttta ggggtttacg 420  
 tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480  
 gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540  
 caagaatatt acggagatta cagatcggaa ggctcccag atcggacgta ttaccggtct 600  
 cgcccgaac gagtaggtat cntccggata a 631

<210> 638  
 <211> 606  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(606)  
 <223> n = A,T,C or G

009060 " 6222960







<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

```
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag    60
gggtccgccc gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc    120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa    180
ctagttgcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg    240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac    300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca    360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag    420
ctccccatt tttccaacac atataccggc aaaggaaaat cttntgtcct cggctctaaag    480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact    540
actccctttc aaaggggagt tccccctagg nagagttcaa cngaag                    586
```

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

```
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggatatng    60
agggctatnt gacttgtttc tcaaatecca tggatatgggt ggtggcggtg ggggtggcgg    120
tcggttcggc ggggggtggg gtcgtcctcc aaaggagttg ctagagggct tttagtggtt    180
ttagggcggg aaggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg    240
agaaggtagt tagcgccggt tcggaagatt ctcaagaattc gagaagaggt agtggggcgc    300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggccgg gagtagcttt    360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct    420
cgaggaacgg agcgaccgac gtcgtagccg gaccggtcta tccgtacgtt tagagatacg    480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatata tcgcgcgtaa    540
aacacgtata cactatatac acgcatcgta cggaccgtat agcgttatata gcgcgcgtaa    600
attaatttac acttatatac gcgttaacac gatatatcac acnccg                    646
```

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

```
ncntcggct tgggtttttt tctgaccccc ccccccccc cccccggctc acaacgtgcc    60
```

```

caccgttgcc atcccagcat agctgggttcg ttctgtttta ttcttagtag ttttagttcgc 120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180
tatcttaggt attcttctgg ttctggctgc cgtctcggag tctggtcctt ttgctttcct 240
ttcttggtcg aacttcgtgt ttgatecgtg tgtttctttg gggtcgtcat acctaagggc 300
cacttcgcca acaaacagt ttgtgtagtc gtttctatta gggttcgctg gccggcgctc 360
ttactgggtg gcgattttta acgcgtttgg ttttaatttg cttcctcccc tagggctcgc 420
tcgggtcttct ctctgttcgc tgctctcgtc cggcctttgg tgcggggata gctccggcta 480
ttancgtgcc gtgtccgtgt ggnttttgc caatgtgaag gcctaggggt gcgggcttct 540
ttggccatgg nttccctct tgtgancctt aggggtaacg antcgttaatt naaggtcggg 600
ggttggnata cgttntangg gangcctng tccgntattc cttgttttg cctn 654

```

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

```

tccttcggct tgggtttttt tctgagcccc ccccccccc ccccccacgcc aagtacacag 60
acccacaaaa aacaacgtca acacaacttc gggatatacg accttaagag agaccccgtg 120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata 180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
cggcactaat tcctttcaag tactcgctcg gcttgtagtt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatacgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacia atatcacctt aaaacgccaa ccccaaaaaac 480
gcgatcagta acgcacgtac ctttccacag cttttctttc tttcactctc caaaaacaaac 540
ccgaatattt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647

```

accttacctg gtacggggcc cccctcgag tttttttttt tccaaatata actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatggtagtg ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtggtattc ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tccacctgt atcaattcat gggctctgct 540

```

ttgtttaatg	tagtcagggt	gttaatacna	gacttaagag	tcatacctact	gtgataagtg	600
gtgagtgaag	attacatgtc	ttangaaaat	tatactggga	atatctctga	cattaatggg	660
tttaaagtgt	ttaaggctag	gggatgatgc	aatgganaan	atncttccaa	angtttctgg	720
ttgtttatat	ttgnnggaagn	catnaagana	ccg			753

<210> 648  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (383)  
 <223> n = A,T,C or G

<400> 648	
gatatcccgg	ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat	ccgggccagc ggagcggcga gggtagggac tcacgggaag ttaaacagcc 120
tcgtcggcgt	cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc	gcggctacgg ccgcggctga ggctctccca ggtggagcgg tggcctggag 240
gggaatcttg	atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg	aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt	ctgatgctac aat 383

<210> 649  
 <211> 349  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (349)  
 <223> n = A,T,C or G

<400> 649	
cgattgtnta	cnagtcttag agtaagctta agntcgn tac cgagctcgga tccactagtc 60
cagtgtggtg	ggaattccat tgtgttggt cactagtaaa tggatttagc tagacanagg 120
anatttacc	tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta	atgagaaatg tgtgtggtag attaattcta ttaatctcaa gttatagatt 240
aaaaaattta	agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangaccntg	catacnaat ganatactgg actttnggna cttgangga 349

<210> 650  
 <211> 306  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (306)  
 <223> n = A,T,C or G

<400> 650	
cattgtgttg	ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc 60

aatccccaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgctgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
cctgcagat	ccganantca	gggnctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651  
 <211> 769  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(769)  
 <223> n = A,T,C or G

<400> 651						
cattgtgttg	ggcaggggtca	tttctaaggc	atgggctgga	agctttttatt	taaaacttta	60
catgtcttag	aagcactctg	gttggttgcta	ggcagacaat	tttacatctc	ttgctatacc	120
agttgcatga	agttcatcat	gcatattggc	tgtggaaaac	cttaacagca	tcatgtcata	180
aggtttcagt	aagggtttaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgtagcttc	aaaacaatga	caacctaact	aatgttgaaa	gaagcttggtg	tttgtaaaatt	300
atgtcttatt	gaaagatgtc	atcaaatect	gttatttcta	atcccttaaa	gtctctcaat	360
gtatttcttt	ttgccatate	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagataacctg	gggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa	480
accattttca	taataatatt	aaaatattat	ttgctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tgngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt	660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	ccttttaaaga	tngngaactc	catcttaat		769

<210> 652  
 <211> 267  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> n = A,T,C or G

<400> 652						
nnangccctt	taaccattgn	ggcctccacg	cnntggcggc	cgctctacaa	ctagnggatc	60
cgcactcta	gnanaangat	tggtctttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgccgcgc	ccncacacn	cccggagcac	180
cctcnttgcn	gcctntcccc	gctcaccctg	cgcgcgccgn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

<210> 653  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

```
<400> 653
cccnttnacc cattgctgga ctccaccgcg gtggcggcgcg ctctanaact agtgggatcc      60
ttncnatgag atgngegang gaggacnnat ttgctatnct ggatggggct gantcntnta      120
gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg      180
cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg      240
ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat      300
ggacntatca ccttanaggt acanntnccg caccacacac cngcttgcn cctgacgctg      360
gactggatcn cttaggccac caatnccccg ttnccacat ncctgggacn ctananatac      420
tcgangggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact      480
ngngnctcta ttanaacggt g                                     501
```

<210> 654  
 <211> 710  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(710)  
 <223> n = A,T,C or G

```
<400> 654
gcgnctttan cncatgctgg gctccacgcg gtggcggcgcg ctctacacta gtggatccca      60
acactgagtc caccacagna aaactcanca ccaggcagac ccacaactg cagaatccag      120
gtgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct      180
caaggnttta ggtttgcgtg gtanactcaa tctctatctt tcaccactgc cagcctgact      240
tcagagatcc tgnctctctg acagtccctca gtggcaggca actctcagga gcctcaggnt      300
tttggcacat ccagnacca gccagctgcc acaggccctg accttntanc aacactgcc      360
atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag      420
gtgcncctca aancgtgtgcc tgcctgcagna ngccccacgt ctctggcatg ccccaatgcc      480
atngngtgna acanttgact tctgggcatg ntgggaattcc ctaccactga ncctgaccat      540
aggngggganc ccattttttt cgagggggggg gcccgcccc caattccncc ntatagnag      600
ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa      660
cccctggngg cnacccaaat taaacngcnt tgcannacat cccctttctg      710
```

<210> 655  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(202)  
 <223> n = A,T,C or G

```
<400> 655
cccccttncc ctttcanccc ccccgttttg gngcgcgcen acacctactn catccacca      60
cantcgacca cccgagcttt ttccgatcc cancatcnat gcngattttt tctntgcntg      120
ctnggcctgc acctttgnta ggtcaagcct ggcccattct cgacaacttc ctcacacca      180
acgatgaggc atactctgac ga                                     202
```

<210> 656  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

```
<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg      60
tggtgggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc      120
ccattcatgg aggccctgggn anttctgtga ntgacntnga cncctanaacnc tnccactgtn      180
tgctatccag acttgnttng aatatnttat tggcnaaana canttncgga atgctgtgnt      240
tgnncattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt      300
ntaaccn                                           308
```

<210> 657  
 <211> 696  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(696)  
 <223> n = A,T,C or G

```
<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggccgc gtcgaccagc aacctcagct      60
gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga      120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc      180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aaccatggct      240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga      300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggtctag      360
aggggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg      420
gtgngaaagc gaatcttggt ntcaaaaana caatggnaag gggtaagttg gtatnctgaa      480
ctggccactt cggactctta ttttaactgg tattctcant taaggaggcn ngggtggtct      540
tggtcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa      600
angntataaaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc      660
gggaaggnaa atnttcttag gnaanggaag ggaagg                                           696
```

<210> 658  
 <211> 698  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(698)  
 <223> n = A,T,C or G

<400> 658

009060"6225960

```

ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcattgctca gcgtggaggc ccctcctcca ggtcgtgct ctgtgggggt      180
cccatacact caggctccta ggaggagtcc atttagaaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgcaca cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg gggtgtcggg      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca      600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncttc cccnaccan cttgcttc      698

```

```

<210> 659
<211> 750
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

```

```

<400> 659
ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatggggc      60
tgatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntattt tcttttagtg atggctcttg tttgcttctg taaggnaactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg ggggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggta      360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc cctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
ttttntggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta      720
aagggttat tttccttccc cttttggaag      750

```

```

<210> 660
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcgggccgc gtcgacgggc agtagtggtta      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagatttttt      300

```



tctgaataca	tgtattactt	ttagagatgt	aaagatgtga	aattactaag	agagaaaccc	360
atgtgatttg	tttagtggat	caaaagtcgg	tagctccttt	gacctaagt	gccactgata	420
gttaaataga	tactgaagct	atgggcaggc	tggattgata	agaaaaaagg	agacagagaa	480
atgggaaatt	gggaaagaac	tgtgcaaata	ggaaaaggag	agagcaacag	aacagaatta	540
gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccatctcct	gaagaattca	600
gtaacagttt	gcaaatggtc	aacacaatca	tttagtgatc	ctggttgata	ttttcaatac	660
tttctgggga	tttcttggct	ggnttcaaaa	gatgatgctg	atagttttat	tgcccctgaa	720
ggtattctga	agnttancat	aatttattgg	tcagtaaaat	atttgaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcnggggg	aangaggata	taattnaccc	840
cggccttgg						849

&lt;210&gt; 661

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(653)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 661

aacttaagct	tggtagcgag	ctcggatccc	tagtccagtg	tggtaggaatt	cgcgggccg	60
tcgacctcca	ttcgtttctt	gtcctttttt	ttcatttttt	ctcatgttct	attcacttta	120
ggtttctaa	ataaatatta	taaaataatt	tttacttata	aattattcac	tgataccctg	180
tctttaacat	gtgaaatgaa	ttcaaaaagga	atcttaatga	gaaataatat	actcatgatg	240
tttaatagat	ttgatttcga	aataataagc	cctctgaagt	cctaagttaa	aaataaagca	300
acttgtttga	taatttttca	tcaagaatgt	atctgagctt	ctgagtaatt	attagtagga	360
atattccatt	atcacaatta	cacagtataa	gctatttagt	ctaactttac	caaaaaaggg	420
agctacttta	acactgtgtg	agacttttaa	tgggttttga	ttgggtatgc	actattagca	480
agataaaccta	ttttacagca	gtgtttntta	acctttccca	tttatttgaa	aggcagctaa	540
gatatagtag	ttaatntaan	gggctgatgc	atztatatta	catgtagana	atgggagata	600
cnaaagggag	nggggggana	tnttttgnat	tcnnaagctt	cnttgncaat	ttaa	653

&lt;210&gt; 662

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(646)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 662

aaacttaagc	ttggtagccg	agctcggatc	cctagtagcag	tgtggtaggaa	ttcgcgggccg	60
cgtcgacctca	gggacaggca	gccagnctg	gggtcaccag	gggtccctct	tgggcccctcc	120
aanagcaaca	gtactggcaa	cagctgggat	ttgctgagca	cagactctgc	agcaggctcg	180
gttagagctct	ctgtgcctgt	tccttcatac	cactctcacg	cccatccatg	agatgggtcc	240
agctgttttc	agatgagaaa	atggcacagg	aagctggtaa	gtgacagtca	gaaatgaatg	300
ctggcagctt	antccttggg	cccaccgcag	tgcaggacct	tgctcaacag	ggatcaccct	360
tgctccgccac	ctgttcatga	ggccacccag	ggtttgtgtg	gtcatttgtc	tcctttcatc	420
tgcttgccctt	caaccagctg	ggtcattagg	gctggggaac	ccagacccca	cacagtcctt	480
ctccagang	ccagacacan	nctncgccac	agnaaggact	tcagtccccg	aancaaagt	540

```

ncttgggcgt anaaactgna gggnccccaa tccttgggtgg ggtactgctt tgcactggng 600
gaattcaccc ctcattnnna acctttccct nttnnccacc ctaaac 646

```

```

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

```

```

<400> 663
aacttaagct tggtagccga gctcggatcc ctagtccagt gtggtggaat tcgcggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaatgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttacgcta gccacatggg agacgttttt tcctttgttt 360
ttgcaaaatt gcaatataag ttgcatatcg ttagagttaa aagatgtaaa gaaccatag 420
aagccagtga tgaaggacat ttatatatttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tnctatttgg 540
atttgggcac cattattacc tccccaggtn cttttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aatttttggg caaaaaaaaa caaggttttt atttaaattt 650

```

```

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 664
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120
agaaagctgc aatttcagggt tttcaacctt ataggtgata ttttaagaaa aaaaaagca 180
atcgcaaata gccccactgc ttttacaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattatth taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggtcctga atagcccaa gcaacactga acaaaangaa caaagcagga 540
agcaaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaataaat 660
cctatatthta cngcccncc 678

```

```

<210> 665
<211> 694
<212> DNA
<213> Homo sapien

```

009060-622566

```
<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G
```

<400> 667  
 nnangacttt tgtggtntta tacaattntt ttttctatth ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540  
 tgcacttagg aggtatcgca agccgtttct ggattaaatt ccagctagc ttgcttgctt 600  
 agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggttcag 720  
 ttgggggtgg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780  
 agggctcgcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 668  
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattgca gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120  
 gaacaatgca aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgccctgct 180  
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctctgtttga gttacaaact ccgcggtatta catgtctttt taaaaaagtt tagactacac 300  
 tagggaaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420  
 cagggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480  
 gctttttaca atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga atacccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(547)  
 <223> n = A,T,C or G

<400> 669  
 cattgtgttg gggaaaaaat gatttggtata agcagtgggg ctatttgca ttgctttttt 60

```

ttttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg      120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc      180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga      240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt      300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct      360
gcagcccngg ggnaaaaacc ttcgcattgt tcttacgtgt ttacgttatt ttatttcctt      420
nnagcaaggc nggganttgg ggactcgaaa tggtagcatt gggctgggga tcgcccttgt      480
tacataaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtccc      540
tgccatt

```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```

cgaactatct agactaccta ggaaaattat ttagtatca gaagaatatt aggggtgtag      60
tactcatcag agctaaatga gagcgcttta aaaatgttag ttgtcttcc gccatttcta      120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc      180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg              232

```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```

ctccccctcc ntccttcgct actnncatt ttcnnaaatt tntttcgct atngggaaaa      60
acaccacat tnttcanctc gcacagaaca ngngggggtg tgtaaaatga agggcttccn      120
cnccttctct tattnaanaa cactnaaana gggangggct aaaaccgcg ngatntctac      180
nctatcgcgg gcgcttttgg ngttggctag aaga              214

```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcgg ngtttaaacg ggcctctaga ctcgaggaga cncctgttgg atggtggatc      60

```

```

acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnctgtgtg      300
ncncccggtg tgnctccaga agaggttc      328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (223)
<223> n = A,T,C or G

```

```

<400> 673
gggggcaaaag ctggctagcg tttaaactta agcttgggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catentcacc tntctgncgc      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccnncttat cctentcggt nnggatccct ngaagcatnt tct      223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (256)
<223> n = A,T,C or G

```

```

<400> 674
gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcnngntgg gtaccggggc      60
ccccctnaa ggggcgcgcc ttttttntt ttttttcatt acatgataa ntctttnttc      120
taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggttcngnat ggatcggccc      240
tgcctctccg atgggt      256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct      180
tcatgactga gtgggtgttg tactatocng gaaactggga cattgtcctt cacatctntc      240

```



<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aatatacnac	tcttgatnaa	acataaaggt	acagtgggtct	atgaggaana	gaaaagggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gcngcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttccccttc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttncctngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggtttg	caaatgcngg	aatttgttta	ctttcntcat	gtcctgtgtt	gnncnaaccg	540
gctcnccttg	tgccctccctt	tngaaagggt	ttcatcaggc	cccgcctttt	ctcttntaan	600
ngtcctaata	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggct						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aaganccttan	caacnttcat	gatccccccc	tcntanncct	tttccctcanc	120
tgcntcctag	tccgtgtttgt	cctnttcccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tccggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
nctccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgatc	300
cctcccctac	ctcccnncnc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggacnt	caagaanta				449

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

tttcngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgc	antcccttga	aaacagggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactcctaac	acctcaactc	cctgtgcaag	360



```

aacagatttt caatgtctac tgatgatttt aaatggatta ntccctctct ttacttttta 420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt 480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac 540
agttttcttt tctttttgac ttgnntaaca cccnngacaa ctttgtncn tttccntgaa 600
tcacancctt cnaanancca atggtnccgt tttttctent tcnnggccct tccctnttn 660
aaaaccanat 670

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcatggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc cttctcctt 60
aaaactcagg acttggaat gancctagga agcgccctc cctccccc anccanattccaa 120
gccccggacc gctgcgncct cagctgcgcc tagtgaaacc gccgaattcg aattcacact 180
cgnggggccc gcgaagggtg gcgcgcccgc gggagcgccg gggcnagccc gagggactgc 240
aagccaanaa nggaggcatg ggtggcgggg ggcgcgctct gatccaggaa ggagcggagg 300
cgccgatcac aactcttna gacgcctgc ccgcgcctgg ccagcgcgca gnetgcagga 360
cgcgcgagc aggaactcgc tggagtttgc caagccccc angnctctggaa agtntgtagc 420
tccctttcgg ancgnetctt ctggcccttt gggacgggtg tgcattggg cgggggtctg 480
tataaggggg ggac 494

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcngtgngc gnataacgat tgctnagccc aacctttcat agggtcgttc 60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcgcat tcgcctctgg 120
tacagttttg catatatatc ctcatcgca gcgagcgtag gggancgtta agtttgggga 180
aatgccnccg catgnccctn ccggagctta aacccccaac aatnccatt ttnaaaaaag 240
ntttnttant taaaaaaaaa aac 263

```

```

<210> 683
<211> 255
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

```

<400> 683  
 cttgcccggc atgcacagac ntntttacgg acacnctact ccaagngagc ctgnanctgt 60  
 ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccgga gggcggtgtnan 120  
 tctggantgc tctctgcact tgaacntaaa ggcgntttca aganaggngct aatngcctgc 180  
 ctcttgacaa cnaacaancc cacaccnacc tangaccctn tangcaagga ctggattctg 240  
 naaatgcaat acaca 255

<210> 684  
 <211> 922  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(922)  
 <223> n = A,T,C or G

<400> 684  
 acccttcatt tcatgtgctt ctattttcct acatctttta catgactaag ggattaatga 60  
 aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta 120  
 gcactttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt 180  
 gcacaataag gattttttgaa tgtataatat catcttaggt aagctttcat atgggttttg 240  
 catatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc 300  
 attacataat ccaatgaaaa tagacttatt ttaaatecct aactttgtag ttttaatttg 360  
 tatttcacta tcttgaaatt aacagctagt acttatccat cacagcagtc tcctactgac 420  
 atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa 480  
 tgggtgatac ccaagcattc tgaattattt gcatcaagga atgggacatg tacattagt 540  
 gcatcatttc taccaatatg tgacttgaat tgttttttta aaaaaaggan aatgantttc 600  
 tcaatttgct ttaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa 660  
 tttattaaca attnttaanc ctctcttaag gacanaattt tgggtgttcag gatcncctg 720  
 aagggtctta tttttnatan nattccaaac caaaagggtg gtttaaaatg ggnggggtcc 780  
 ccccncaaaa atttgaccg gcttttttat atttaaaaaa ntnccnttt gngtttgaaa 840  
 nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaaac nctngcctnt 900  
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<210> 685  
 <211> 531  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(531)  
 <223> n = A,T,C or G

<400> 685  
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 gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180  
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 gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300  
 ctctggggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360  
 agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420

attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480  
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<210> 686  
 <211> 336  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(336)  
 <223> n = A,T,C or G

<400> 686  
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 gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240  
 anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300  
 ctagggttta tttgagagca ttttccagtg cagatt 336

<210> 687  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 687  
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 atttaggatt ctgggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180  
 tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240  
 tctctgagaa gaggacatag cttgtagtgt t 271

<210> 688  
 <211> 740  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 688  
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 tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180  
 acacttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat 240  
 atatttgtaa aatgcatgga ttctctgaan atcncctctgc atgtgagcaa cacttacatc 300



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&lt;210&gt; 691

&lt;211&gt; 882

&lt;212&gt; DNA

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taatgcaccg	catctacatt	cccatgctct	ctttacttct	tcagcattgc	ctaaaggcat	180

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aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga      240
ctctgtccat aatggnaaac ctgnatgac cttgatatta acantttaag gaatgctcat      300
ggattggtnn cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg      360
gaagcatttg cacatattac ata                                           383

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<210> 694
<211> 204
<212> DNA
<213> Homo sapien

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<400> 694
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aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtgggtat     180
tattcacatc tgagtacaaa tttta                                           204

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<210> 695
<211> 670
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1) ... (670)
<223> n = A,T,C or G

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<400> 695
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tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctcct ggattagggt      180
aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac      240
ccagaggagg agacggaggc agagacaggg ccaccagag gagagagacg aggcagagac      300
agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga      360
ggcagagaca gggccaccca gaggaggaga cggaggcaga gacagggcca cccaaaggag      420
gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca      480
cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa      540
cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag      600
ncggagggnn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaaccn      660
ggggccnnc                                           670

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<210> 696
<211> 317
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1) ... (317)
<223> n = A,T,C or G

```

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<400> 696
tgacccgtnn tttctgcaaa ggagagtggg gaaggagggn tgggaagaca aaagttacat      60
gttagcaggg aagagaacag aattttatcc acccttatct ctttagtgag tgaacaaaca     120
gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt     180

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gaagagtgag	taaatatggt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gtttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697  
 <211> 246  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(246)  
 <223> n = A,T,C or G

<400> 697						
ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttct	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698  
 <211> 3674  
 <212> DNA  
 <213> Homo sapien

<400> 698						
agaaagtttc	cttttttttt	tttaatggtg	aaaagatata	cacatattta	gaattagcca	60
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agccagtga	acatattcct	tcttctctcc	atcaggccaa	atcacggtgt	tgaccttggc	180
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<210> 699

<211> 2051

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(2051)

<223> n = A,T,C or G

<400> 699

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```

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<213> Homo sapien

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<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

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<400> 701

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<213> Homo sapiens

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Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
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Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
      50              55              60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65              70              75              80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
      85              90              95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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009060" 6225960



Ala Pro Val

370

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0096729.090600

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<211> 203
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<223> n=A,T,C or G

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<212> DNA
<213> Homo sapiens

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<400> 718
ggcagganga tcncttgagc ccngagggtc gaggctacag tgagccanga gtgcactact 60
gtnnccgccc ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120
anttcctttt aancgtnttg antggtacna cctcgantc cctggctg          168

```

```

<210> 719
<211> 210
<212> DNA
<213> Homo sapiens

```

009060"6225960





gnttctcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120  
gcacnggtcc ccttcnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180  
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240  
atcaag 246

<210> 723  
<211> 160  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(160)  
<223> n=A,T,C or G

<400> 723  
cctccggaat atccaantag agtaantnch ctctaattccg gggnaattgg nggggttnnat 60  
acgtctctct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120  
gnatcnanta gccgtncctg ananccaacg cccctacgtc 160

<210> 724  
<211> 156  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(156)  
<223> n=A,T,C or G

<400> 724  
tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaataa aagttgagaa 60  
gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120  
acctccttag gcccttgnnt ggaacaancg aaaatc 156

<210> 725  
<211> 347  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(347)  
<223> n=A,T,C or G

<400> 725  
aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtggt atccaaagaa 60  
ttcggcacga gagacggtgc gcatgggacc gagggcccca gccgngagg cgccgccgcc 120  
gagcccgccg ncagacgccc catcagtagc gtccgcaccg ggnagcccg gntctcgccc 180  
gagccgtggg cgcgcccag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240  
gcccagagccc gcgcgctcgc cgcgcgccgc ttgcgctcg gncgcgcgg nccgnaaac 300  
gcggtcgagg tctggatgng gcanngccgc cncctntcgc tgagcct 347

<210> 726

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<211> 162  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n=A,T,C or G

<400> 726  
 ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaataact 60  
 tccccgcttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagnngcgat 120  
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> n=A,T,C or G

<400> 727  
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60  
 ggggtcnctt anagnnagg gggttcctcc ccaccacttg ncttgnccat tgnagagnaag 120

<210> 728  
 <211> 130  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(130)  
 <223> n=A,T,C or G

<400> 728  
 gacccactgc agcgttnaac ttagcttgga cggagctcgg atccctagtc cgtgtgggtgg 60  
 aattccatgt gtcgagagag gggcaaatac ntcceanac ancncctca tgctcnacac 120  
 atattcgcat 130

<210> 729  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(182)  
 <223> n=A,T,C or G

<400> 729

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```

cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nnetgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gcncttcacc actgctctct tctctctctt cctctctctc 60
ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggccttctca cctctctcgg cccctctctt ggcccgcacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctcctc cccctctgcc 240
acctgggtact cggcatgggt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcgcgcc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgcc tctcggtta gcccacgct caactcaagc tggggcactg tcacgggtgg 480
catcttaaag acaccctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaacct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcacccctt tccggcgggc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggntagtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

nagtnctatt	tncactaaac	tgngagtgcc	tgggatggct	ttcaggatgt	cctgaatcct	60
ctataattgt	atacaaaatc	gtgagttttt	aaaaactggg	ttagagctat	tggttcctca	120
gagtctcagg	catcttagac	ccccaaaaag	gttaaggact	actgacttaa	ccaattaggt	180
ttgagtggca	ttggctttga	agaaaaagcag	aggaaagata	tattttataa	ttctggqcaa	240



<210> 738  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n=A,T,C or G

<400> 738  
 ggagncnctt gancaggatg accgacttca ggctgtgctg ctcaatcgtg gagaatctcg 60  
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120  
 tctctctctc tctctctc 137

<210> 739  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(970)  
 <223> n=A,T,C or G

<400> 739  
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60  
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120  
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180  
 tgtgggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240  
 cattttttct aactgagcat agccatgaac ctctcacgctc tgttcctctg tgcagtttg 300  
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360  
 aagtgcagtg ttgctatggg gattttgcag ctggccaaat agtcactggg tgattttacc 420  
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480  
 tctcctctgc aagctgnagt taagatggat taatgagtag ttttagatta attaactctg 540  
 aagagaaaaat gggagaaaag tgaggaagggt tgttggcaga agtcattgct ggaatccttc 600  
 tgaaggaggat actgacttca cttgcaaaaga cnagagacta naagacaatg aagttaaact 660  
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720  
 tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780  
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840  
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900  
 aaantgaaga agggaaaaat ntttccccnt nttttntttt tttgccccct tgggattggn 960  
 tttnttttcc 970

<210> 740  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

&lt;400&gt; 740

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc tccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcattgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatgggtg attttgcagc 360
tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcttggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaacctt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaat ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc 739

```

&lt;210&gt; 741

&lt;211&gt; 1171

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1171)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcgggc gcgtgcagcg cccttnntgc cactagtctt ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcttaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaataca gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggtattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnggcntt ggggaaaaat tcccntttt ccttgnaaa 660
aggggggnaa ggttaancct tgggaacctt tttcncctt tttnggccca aaagggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctnt 780
ngggcccccg ggccctctc caanaaggga aaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancncat aattgggaat tatggggggg 900
ccatgggctt ttggtttggg cncctaaccc cgcnttttaa attcaaanna aaaaaagng 960
gttttgaaaa nnaaanaaaa aaaattnaan ggnccnaaa aaaaaccctg gaaaaccctt 1020
ggaaaaaaat tngnnggggg gccnttttgg tgggggggtt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
cccttgggga atggnntant tcanggggcc c 1171

```

&lt;210&gt; 742

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

009060 "04245950



<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

<400> 742  
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 tgccactagt tctttcattc ttcccccacca tcaatcagtg aacttttttag cctactcaaa 120  
 gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180  
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240  
 tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300  
 ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360  
 tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420  
 tgagagtga atcaaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480  
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540  
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600  
 aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660  
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720  
 ctttgtttgg cncctaacc 739

<210> 743  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(610)  
 <223> n=A,T,C or G

<400> 743  
 ctgtccttat ttcttttagca aaaattttccc aagagaagaa ttgctgggat aatgcacatt 60  
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagacctt aattcctgtt 120  
 gtcaaattgc cctatatatg gagtaataaaa cacgatttaa agaaatgagg actaaaaaaaa 180  
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240  
 ttatctgttg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300  
 ctaggttaga taccgaggt ccacaaattt ttcataagaa atattttttc tctgccttat 360  
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420  
 atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480  
 gctctgngat cttggacagg tcaattgact tggcttaate ttctcatcca tttagnngag 540  
 acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngngaaaat 600  
 ataangcctt 610

<210> 744  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n=A,T,C or G

<400> 744

ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60  
gcacgagggg gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120  
gagagag 127

<210> 745  
<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> n=A,T,C or G

<400> 745  
gatataccgg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60  
ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggagggg 120  
acttctctgg ccttcgggtc tctgtgact ggggtggctc ctgtggccca gaatgccctg 180  
gagaaggggtc ctactggaag cgaaggtgca gggcagcagg gcctgaggcg caggagctgg 240  
tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300  
ggggagtttc ccccgagaat gggaggcttc acagtcctccg tgctgcaatg ctgtcggtgc 360  
actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420  
ccagcanngc accctcttc tntctctcgg anaaagcc 458

<210> 746  
<211> 893  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(893)  
<223> n=A,T,C or G

<400> 746  
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gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120  
cannгаагt cctgccgact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180  
natggaagca gctgtgtatg caggagggg gcagaggctg ctgccaatgg gcatgtccct 240  
tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300  
ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360  
ggaccaaggt ggccttggac aaaactctct gtgtttgcca agcacccaat cggacacaga 420  
gagtcaacca caccacagtc acatggtgtc cacacngcag ggtcaagga ggcccgggcc 480  
ctccccctca gacgtccctg ggctctctgg agtcagcaag gacgaggacg gcattgccct 540  
tcgagacagg aaggagtgta cctcctcccg cgggcatcca ggctcngctt ctccggagag 600  
gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aagggtgacca 660  
tgagcacctt gcaaacacag tgcacccacc agcatttnag caccngggac tgtgaagacc 720  
tccattttct tcggggggaa acncgcccac ngttcccccc accntcacta gtgnattgtg 780  
acctgggggn cgggcccagc cctgtngctt gggnnagccc tccncccagg tttctnnggc 840  
ngccenttaa nggnccctng nttggccctt tggccnctt tncgcttttc cca 893

<210> 747  
<211> 738  
<212> DNA

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<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

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ggcagactgc catttgtcat tnattactga aggaaagggg tcttcagttt gcttgtggac 120
atttcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaaggt 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatatt gatacttact gatcctacat atgtaacagg gagagaaggt gaatttcaaa 480
gcantaaatt gaaaaattgt tcacaatttc atttttttaa aaaagggagc taacagaaga 540
agagggttaat gtggttaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600
ctgagtggga ggggagctgt ctctctgacc caaaaggatc ctttcgttan ccngnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttggncccc gcaaaaagc                                     738

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<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggtatng 60
aggctcgagag taagacgggc tattagtagt cgcacgagag ttatttgtga aaacctgggt 120
agggcctctg tctccgctgc gctcgcctaa attgggtatg ctcgacttgg aaacacgggt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccctccgg tategttcac ggaggcgata tttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggg caatcggcgg aaatatagag gcaccaataa 420
tagggcctac agaaggcccc aggggttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggttta atgccaagga 540
gtcgggaagca tcgtcggcga gtaataaact ccacgcgcgc gagactatct acgacgccct 600
ccttaanatc cgtaaattac tcccggaaag agtatttagg cggtctct 647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(642)

<223> n=A,T,C or G

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cttttgtggc	ggnnggtgtct	catttgggtg	gatttttggg	tcgtaggnaa	cctggtatng	60
aggcagctct	gagccccccc	ccccccccc	ccccccnccc	ccccccccta	ggnnggttggg	120
aanacggtgg	atacctaaat	cgagtgngtt	cattaaaagt	agttgattac	nccctaaaat	180
aanaanaggg	cttcgctcggg	anaaaatcgg	aagganaagt	ctttntggca	tcataanaat	240
actggctcgg	gtcctaanaat	ntttaagngn	gtcnccgagg	gtnttcatac	cgataanaaa	300
cqttttccta	tcgggaacgg	gcttacctga	ggngggactt	ctnccggngc	ggngattnan	360

```

acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatatc ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cnogcatatt cgctttttcg tccatagggat 480
gcttaaagtgg cgatactgct atagcgggtg agcgtttggtt ctcgagnaana aaagcgtgtc 540
ctaattgcgtc taaggnttta aggnccgttg tttaaaaata nccttagaaa cctcgaggcg 600
gatactgggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgagggtc 60
ttgcagattg ttgggtgtgtc ctgtcgcttcg gtgggttccct tttgagttga gtttgcctt 120
tgaggttgtt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtggtgggtta cgggtgtattg tcgcccgtgg tcgcgggggtt ggggtgggtc tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgg gcggttttgg gtgagtagtt tcgttcttgg 300
atgtcccat gaccgcgcac aatctaagta agggtagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtcgtca ttatatgtct cctcggagga ggaagcggcg gtggcggaaa 540
atgaggcggg aagaaagacg acctctatcg gggcgttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggaacgctcc ttctcggatc gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

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<400> 753
ctttgtggcg gtggtgctca tttgggtgga ttttgggtcg gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaccca aagtccaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag cgttaggac agcggacgga acattnaaga aagagcctat attaggagg 240
aagtaacgtt cctctttcgg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgctga tacgggctct cacggngagc ctagggtcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgtccg 420
gagtattngg agagggatcc ttccgaccct agggacagag agaggagaac ggagggtaca 480
ggaggagaac gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgatagggtt 540
cctagggtcg gngaatttac ggttcgaaaa acggtagtn ctaangngtg ntattngggg 600
tagtatcggg tcgttttaca ntgcgtccgtc ttntg 635

```

```

<210> 754
<211> 721

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n=A,T,C or G

<400> 754  
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60  
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120  
gcttggtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240  
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300  
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360  
cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420  
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480  
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540  
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600  
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660  
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720  
a 721

<210> 755  
<211> 721  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n=A,T,C or G

<400> 755  
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60  
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120  
gcttggtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240  
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300  
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360  
cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420  
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480  
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540  
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600  
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660  
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720  
a 721

<210> 756  
<211> 873  
<212> DNA  
<213> Homo sapiens

<220>

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<221> misc\_feature  
 <222> (1)...(873)  
 <223> n=A,T,C or G

<400> 756  
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60  
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120  
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180  
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240  
 atgccaatga gcactcatta taaccggccc tattttatag gatttaattt tacacttcag 300  
 gcttaatcag tctgaaagtt aaactgacag tgtaaagtta cggaatcaat gacatttagg 360  
 cttttatgact ttgtagctga atatctatgg gctatatatt cattctaaca gtgatatcct 420  
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480  
 cacaccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540  
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600  
 ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tggaaagctgc cccacactgg 660  
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctancgggg 720  
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaaggggnt taggagcgat 780  
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840  
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757  
 <211> 782  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(782)  
 <223> n=A,T,C or G

<400> 757  
 ggccctcga gggatactct agagcgggcg ccgactagt agctcgtcga cgatatcccg 60  
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120  
 atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcaggtgcc catacctagg 180  
 gcagctgtgg aagtgtcagc gtcctccctg agaggaactc ctgctccggt ggctcctcag 240  
 tccttccgtc agtatgtgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300  
 ctgntccctt aaaaggtggc cttcccnaag aaaggagaat tcttggacna gggatttcac 360  
 ttgnttagaa atgggaaaaa ttaccatta gaattttcgn ttccaaggcn tnaagncccta 420  
 aaaggccttt gattcccga ccttaaccct gggcagttaa cttttcaaac gggataaacc 480  
 ctgangggga aatnaaatc ctttaaaaaa ggggggggtt naaggagggc tctttggctt 540  
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600  
 aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660  
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720  
 cccanggat tanttcccga aaatttggnn aattttntt tгнаactttt tgggtttttt 780  
 cc 782

<210> 758  
 <211> 647  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(647)  
 <223> n=A,T,C or G

<400> 758  
 ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60  
 gggaagagcg ccgtcgggtcc gagtacagta tggagtagta tagtcttcgc gccttctcgg 120  
 gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180  
 ggaacagccg tcgaatattt taggttcgtc gaggtcttct tccgagctct acgcctaagt 240  
 agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300  
 attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctcgt 360  
 cgcgtgccgc gaaagggcag agcttcgtgt cttccctccg cagcagctta acggtctacg 420  
 taggcgttct cgatcttttc acgggaatcg gggtcgggga gggcggcgga aaacgtcgac 480  
 gtctcgggtca ccgtcacgcg cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540  
 ccgcaccctt cattagcgtt tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600  
 cgataattat tctctattag cggtcctatc tcgcgctttc gatttat 647

<210> 759  
 <211> 657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(657)  
 <223> n=A,T,C or G

<400> 759  
 ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60  
 gggctctata gaaagcctct tgtctttaga tacgggcttt ctggtccttc gttctggaag 120  
 tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180  
 gcttattcta tagttccttc gggacataag gtcggtacga tctatactgc gtgggaagct 240  
 gatagggttg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300  
 atattattta cggcgccgcg gggtagccgc ggtcatgcgg aaattttctg aggttcttgg 360  
 attcctaaga tcgctcccggt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420  
 accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggt aggacgagga 480  
 cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540  
 ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600  
 attccgacgg gagacttagg cgaatggagg gttccgcggt tganaatcgg ancggggg 657

<210> 760  
 <211> 644  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(644)  
 <223> n=A,T,C or G

<400> 760  
 ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60  
 ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120  
 tacggacgtc gttaaccccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180  
 cgggaattcc ggcggagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240



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<210> 761
<211> 647
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> (1) ... (647)  
<223> n=A,T,C or G
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<210> 762
<211> 628
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G
```

<400> 762						
cattgtgttg	gggtcactga	gcccactttt	ttccagattt	tttgtaaaat	tgtttcgcat	60
tgtgttcctt	ttattcgctt	gtattaatat	ttgcgtagtg	gattaaacaa	atacttggtg	120
ttgactgtca	gtccttagagg	actgactaga	agtagttttc	atttggggct	caggaaatac	180
ctactttata	tttctagcta	attaggaaag	tcatttttca	gttaggttgg	tgttttggtt	240
caggcactcg	ctagctagat	gacctaacat	gctacttaat	ttctgagtgt	ttgtgtccat	300
ccctgtagga	ttgttgcggg	gttaaataaa	atttgtgtata	tttgtaaagc	atttacctca	360
gtgccagac	tgtgacagag	tagattatta	ggcttgctct	tattttctgtg	attaaattta	420
gtgtcagatt	agcaacctat	agctacttct	aaagctgctg	ctgcttttctt	tgtttagggg	480
taggaagaaa	catgctggac	agtttgcac	atgagagtta	catgatgtgg	cttggtgggaa	540
cattctaact	tggaacttgc	ccattttccag	gactttgngg	ttcanagatt	tttggggata	600
gatgtaaggg	ttaaaaaaaa	cnqaaaac				628

<210> 763  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n=A,T,C or G

<400> 763  
 cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaa 60  
 gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120  
 ttttttttat gcacaccacc ttcnggc 147

<210> 764  
 <211> 146  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> n=A,T,C or G

<400> 764  
 cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60  
 agagttaggg ggactgttag aacagagaaa ganatcatgg ggttgggttt gagtctgatg 120  
 nnnaactggt gccgnntgct cagtat 146

<210> 765  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(129)  
 <223> n=A,T,C or G

<400> 765  
 tncncgattc gntnctagcg tntacactna tgtcttgga ccgagctcgg atccactagt 60  
 ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggctg 120  
 nagaggcgg 129

<210> 766  
 <211> 175  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(175)  
 <223> n=A,T,C or G

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<400> 766  
 cattgtgttg ggcctagtc gaatactttt agtaacttca gacagatctc ctcatctctt 60  
 tctggggcctt ggnttttctc ctttgtanaa tgatgccttt ctgtggtttt gtcattttcta 120  
 acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175

<210> 767  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(602)  
 <223> n=A,T,C or G

<400> 767  
 nnnttttaaaa nctgtntctc ccgcgggtggc ggccgctcta gaactagtgg atccttttcca 60  
 cctggtttgt tttcagtgtt taatcctatt agtatcagca ggatataggt caggatatca 120  
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180  
 aatgagttag agtacaaagt tcaagccctg ttgaggggtc gcattaaact ctcagaagta 240  
 tttagagtgt gccaggagcc gcgaagggtc ggttcgggtg gtggcgggaa ctgtattaga 300  
 gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttggggtg 360  
 gagctccagt actcagaaaa gcatctcagc aggtactcaa cagatcctca ggggcttggg 420  
 ggcccagcac tggcagttag ggcattgaaag acataaaaagg gcactacctg tgggtatttt 480  
 ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatactat gttgtagcaa 540  
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaactct 600  
 ta 602

<210> 768  
 <211> 671  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(671)  
 <223> n=A,T,C or G

<400> 768  
 tccaccgcgg tggcggccgc tctagactag tggatccact agtccagtgt ggggtgggaat 60  
 tcgcggcncg cgtcgacaaa aatactgcta aagtaatat tttatagatg actatttgcc 120  
 ttggggccag gaaaagcagc tggagttatt cacttagtac catttttaca tactaacttt 180  
 gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240  
 caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300  
 taactgaagg gttaccagt actgattcca caatcttctc tgtaaaanat ttctgcctat 360  
 tatgcagact gggcggcttt aaanntggta aaactatnaa ataccatac aatattttta 420  
 nggggccccn ttatnaagct tttcaggcct tcccccttcc atagcattgg tgggatacaa 480  
 gaaaccttta aacagcaacn agctatcnag gcccaaaaagg aaagtaattn tgatttttta 540  
 nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600  
 cttattaaac nttttttttt tttaatttta ccccatggtc ntgatnttng ngcttccgcc 660  
 canaaaaatng n 671

<210> 769

<211> 877  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(877)  
 <223> n=A,T,C or G

<400> 769  
 aaagctggag ctccccgcgg tggcgggcgc tctagaacta gtggatccac tagtccanng 60  
 ngggggaatt cgcgggccgc tgcacctcta tacctttgnt catgcagctt cctctgactg 120  
 ggtttgttct tcaattggct aacctctctt ttacttaagc acaccttgaa cattccctcc 180  
 ttccccatth cccgcagng cccetaatgg acatacttct gaataacaca ggtgggtattc 240  
 cttccttggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300  
 cctttgacca tgacatcaac agtgctccaa attatggggt accgtattag cctatgtcta 360  
 tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgcctcttta 420  
 aagtcagggt ttgccttacc tattgtctaa caccatgcag taggtaacat gcagtaggaa 480  
 acatggcatt aaattatttg ggttcaaatc ccagttatgg tgtgtaaatg cctaccaggc 540  
 cgtgaggcac ctgctaagca ggttgacgc atcatttgaa ttcacaccac ccttttgcaa 600  
 tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag gggaagtgcc 660  
 aggattccca ccaaggcctc angggccagg tccanggacc atgtctgttg tgacaactgg 720  
 agtgcatttc atatccccctn ctctgngggg naaggteect cncgnggaga acnnttaaaa 780  
 caatcatntc tngggggntt aatgcttctt nccccagtg ggtncactgc ngccacgagt 840  
 cccanccact agtcccangt ctgtcatgaa ccancecc 877

<210> 770  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(874)  
 <223> n=A,T,C or G

<400> 770  
 ctggnetccc cgcggtggcg gccgctctag aactagtga tccactagtc cagtgtgggtg 60  
 gaattcgcg cgcgctcgac cttttcaaag gttaacttat ttaattatca canngcaac 120  
 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180  
 tgcccaatth cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240  
 atctgtaacc ctacgatgc cactactact tctttcagaa taccctttgc ctatctattc 300  
 tgttcctatg tcatcaaatt atacttactt taaaaagtat ttgtctttat tattttttaa 360  
 aaaacacagg gaagtatttc tgatcagggg cagtattggg tctgaaagac aagccagtgt 420  
 ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480  
 tgtagctatt acagaaccgc tttagcaaat gtgttcatt aatcaagggt atttataaca 540  
 aaatttcac caagtttggg gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600  
 cctctcgtgt gtcccttttt tttagctatt tcagaagcac actgggtgcaa tatttttacg 660  
 aatgagtttc ttccctttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720  
 natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780  
 aatttgtttt gattccnngc aaaaaaagtt tnttnttgga tgtagggggc tcnnaaagnc 840  
 caaaaccccc caaaattttt nnttgggaac ccna 874

<210> 771

<211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(156)  
 <223> n=A,T,C or G

<400> 771  
 ttaaaaaanct ggnctccccg cggtggcggc cgctctagaa ctagtggatc cactagtcca 60  
 gtgtgggtgga attcgcgcc gcgtcgaccg cgagcggtcg cccctttttt ttttttttn 120  
 ngtttttttg aanaattcat tgggtattta ttattc 156

<210> 772  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(586)  
 <223> n=A,T,C or G

<400> 772  
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 <213> Homo sapiens

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<211> 3064

<212> DNA

<213> Homo sapiens

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<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

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15

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 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu  
                   35                                  40                                  45  
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr  
                   50                                  55                                  60  
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro  
                   65                                  70                                  75                                  80  
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu  
                   85                                  90                                  95  
 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile  
                   100                                  105                                  110  
 Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys  
                   115                                  120                                  125  
 Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu  
                   130                                  135                                  140  
 Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu  
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 Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys  
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 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys  
                   180                                  185                                  190  
 Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp  
                   195                                  200                                  205  
 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys  
                   210                                  215                                  220  
 Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly  
                   225                                  230                                  235                                  240  
 Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr  
                   245                                  250                                  255  
 Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala  
                   260                                  265                                  270  
 Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser  
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 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val  
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 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg  
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 Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr  
 340 345 350  
 Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu  
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 Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe  
 370 375 380  
 Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met  
 385 390 395 400  
 Val Asn Gly Gln Glu Glu Leu His Val Ile Ser Met Glu Thr Thr Ser  
 405 410 415  
 Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg  
 420 425 430  
 Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg  
 435 440 445  
 Gln Val Met Asp His Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His  
 450 455 460  
 Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp  
 465 470 475 480  
 Asp Val Leu Leu Gly Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg  
 485 490 495  
 Lys Thr Ala Ala Leu Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu  
 500 505 510  
 Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys  
 515 520 525  
 Thr Ser Gln Ile Gln Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp  
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 Ser Lys Thr Tyr Ile Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val  
 545 550 555 560  
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 565 570 575  
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 580 585 590  
 Leu Pro Asn Thr Gly Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile

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 Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val  
 625                      630                      635                      640  
 Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys  
 645                      650                      655  
 Thr Gly Pro Lys Lys Phe Ile Val Lys Leu Ser Ser Lys Gln Val Lys  
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 20                      25                      30  
 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu  
 35                      40                      45  
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr  
 50                      55                      60  
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro  
 65                      70                      75                      80  
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu  
 85                      90                      95  
 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile  
 100                      105                      110  
 Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys  
 115                      120                      125  
 Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu  
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 Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu  
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Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys  
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 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys  
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 Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp  
 195 200 205  
 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys  
 210 215 220  
 Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly  
 225 230 235 240  
 Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr  
 245 250 255  
 Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala  
 260 265 270  
 Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser  
 275 280 285  
 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val  
 290 295 300  
 Asp Thr Tyr Val Asn Glu Asn Gly Glu Lys Ile Thr Ser Met Thr His  
 305 310 315 320  
 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg  
 325 330 335  
 Pro Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr Pro Gln Glu Arg Ser  
 340 345 350  
 Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu Thr Ala Ile Arg Lys  
 355 360 365  
 Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe Val Phe Ser Glu Val  
 370 375 380  
 Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met Val Asn Gly Gln Glu  
 385 390 395 400  
 Glu Leu His Val Ile Ser Met Glu Thr Thr Ser Ile Gly Lys Asn Ile  
 405 410 415  
 Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg Asp Ile Thr Tyr Glu  
 420 425 430  
 Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg Gln Val Met Asp His  
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Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His Arg Gln Pro Val Lys  
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Glu Asn Phe Leu His Met Ser Val Gln Ser Asp Asp Val Leu Leu Gly  
465 470 475 480

Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg Lys Thr Ala Ala Leu  
485 490 495

Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu Gln Leu Tyr Thr Gly  
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Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys Thr Ser Gln Ile Gln  
515 520 525

Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp Ser Lys Thr Tyr Ile  
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Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val Ile Arg Gly Phe Ile  
545 550 555 560

Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met Ala Ser Glu Val Phe  
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Thr Ser Asn Gln Tyr Pro Glu Phe Ser Ile Glu Leu Pro Asn Thr Gly  
580 585 590

Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile Phe Lys Asn Thr Leu  
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Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu Glu Ser Leu Gly Ile  
610 615 620

Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val Gln Pro Gly Glu Thr  
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Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys Thr Gly Pro Lys Lys  
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Phe Ile Val Lys Leu Ser Ser Lys Gln Val Lys Glu Ile Asn Ala Gln  
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Lys Ile Val Leu Ile Thr Lys  
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<211> 5668

<212> DNA

<213> Homo sapiens

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<212> PRT
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          20              25              30
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Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp		
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Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp		
85	90	95
Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser		
100	105	110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp		
115	120	125
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys		
130	135	140
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile		
145	150	155 160
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His		
165	170	175
Tyr Gly Leu Thr Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile		
180	185	190
Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp		
195	200	205
Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu		
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Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro		
225	230	235 240
Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn		
245	250	255
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu		
260	265	270
Glu Lys His Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly		
275	280	285
Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu		
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Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val		
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Glu Gly Ser Gly Arg Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val		

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Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu																																
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His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val																																
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Gln His Phe Thr Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln		
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Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg		
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Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala		
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Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val		
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Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe		
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Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu		
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Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu		
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Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile		
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Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu		
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Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly		

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 Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val  
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 Phe Arg Gln Leu Asp Thr Lys Leu Asn Asp Leu Lys Gly Leu Leu Lys  
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 gggggcgcca agaacttcgc cctgaagccg cgcattgcga agatcttcag ccggtcatc 480  
 tacatcgcg agtccaaagg tgcttgatt ctacgggag gcaccatta tggcctgatg 540  
 aagtacatcg gggagggtgt gagagataac accatcagca ggagttcaga ggagaatatt 600  
 gtggccattg gcatagcagc ttggggcatg gtctccaacc gggacaccct catcaggaat 660  
 tgcgatgctg agggctattt tttggcccag taccttatgg atgacttcac aagagatcca 720  
 ctgtatatcc tggacaacaa ccacacacat ttgctgctcg tggacaatgg ctgtcatgga 780  
 catcccactg tgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgcaact 840  
 attcaagatt ccaactatgg tggcaagatc cccatttgtt gttttgcca aggaggtgga 900  
 aaagagactt tgaagccat caatacctcc atcaaaaata aaattccttg tgtgggtggtg 960  
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 gctgctgggg agtccgagga gctggctaat gagtacgaga cccgggctgt tgagctgttc 1860  
 actgagtgtt acagcagcga tgaagacttg gcagaacagc tgctgggtcta ttctgtgaa 1920  
 gcttgggggtg gactcgagca ccaccaccac caccactga 1959

<210> 818  
 <211> 652

009060"5245960

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 818

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Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
      5                      10                      15

Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
      20                      25                      30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
      35                      40                      45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
      50                      55                      60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
      65                      70                      75                      80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
      85                      90                      95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
      100                     105                     110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
      115                     120                     125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
      130                     135                     140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
      145                     150                     155                     160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
      165                     170                     175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
      180                     185                     190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
      195                     200                     205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
      210                     215                     220

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
      225                     230                     235                     240

Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
      245                     250                     255

Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
      260                     265                     270

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009060"0225960

Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly  
 275 280 285  
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu  
 290 295 300  
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val  
 305 310 315 320  
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val  
 325 330 335  
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe  
 340 345 350  
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp  
 355 360 365  
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val  
 370 375 380  
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser  
 385 390 395 400  
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn  
 405 410 415  
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu  
 420 425 430  
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp  
 435 440 445  
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe  
 450 455 460  
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr  
 465 470 475 480  
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val  
 485 490 495  
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu  
 500 505 510  
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys  
 515 520 525  
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val  
 530 535 540  
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile  
 545 550 555 560

009060" 0225960



Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg  
                   565                                  570                                  575  
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu  
                   580                                  585                                  590  
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu  
                   595                                  600                                  605  
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr  
                   610                                  615                                  620  
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu  
                   625                                  630                                  635                                  640  
 Ala Trp Gly Gly Leu Glu His His His His His His  
                                   645                                  650

<210> 819  
 <211> 132  
 <212> PRT  
 <213> Homo sapien

<400> 819  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1                  5                                  10                                  15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
                   20                                  25                                  30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
                   35                                  40                                  45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
                   50                                  55                                  60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65                                  70                                  75                                  80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
                   85                                  90                                  95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
                   100                                  105                                  110  
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
                   115                                  120                                  125  
 Gly Pro Pro Ala  
                   130

<210> 820  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>

005060"6225960

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcgagt caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

atgcatcacc	atcaccatca	cacggccgcg	tccgataact	tccagctgtc	ccaggggtggg	60
cagggattcg	ccattccgat	cgggcaggcg	atggcgatcg	cgggccagat	caagcttccc	120
accgttcata	tggggcctac	cgccttctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgacagag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
gcgtttaacg	ggcatcatcc	cgggtgacgtc	atctcggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaacgt	gacattggcc	gagggacccc	cggccgaatt	catgatccgg	420
gagaaatttg	cccactgcac	cgtgctaacc	attgcacaca	gattgaacac	cattattgac	480
agcgacaaga	taatggtttt	agattcagga	agactgaaag	aatatgatga	gccgtatggt	540
ttgctgcaaa	ataaagagag	cctattttac	aagatgggtgc	aacaactggg	caaggcagaa	600
gcccgtgccc	tactgaaac	agcaaaacag	agatgggggt	tcaccatgtt	ggccaggctg	660
gtctcaaaact	cctga					675

<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

atggggatcc	gggagaaatt	tgccactgc	accgtgctaa	ccattgcaca	cagattgaac	60
accattattg	acagcgacaa	gataatgggt	ttagattcag	gaagactgaa	agaatatgat	120
gagccgtatg	ttttgctgca	aaataaagag	agcctatttt	acaagatggg	gcaacaactg	180
ggcaaggcag	aagccgtgc	cctcactgaa	acagcaaaac	agagatgggg	tttcaccatg	240
ttggccaggc	tggtctcaaa	ctccctcgag	caccaccacc	accaccactg	a	291

<210> 824

<211> 1074

<212> DNA

005060" 6225960

<213> Homo sapiens

<400> 824

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atgtcagcca ttgagaggggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgtactttg atgagatatc acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggcctttcct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctggtc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc ggggaactctg 360
aggagtaata ttttattttg gaagaaatac gaaaaggaaac gatatgaaaa agtcataaag 420
gcttgtgctc tgaaaaagga tttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgt caaatTTTgc atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatgggtgc agaaggggac ttacactgag ttctctaaat ctggtataga ttttggtccc 780
cttttaaaaga aggataatga ggaaagtga caacctccag ttccaggaac tcccacacta 840
aggaatcgta ccttctcaga gtcttcgggt tgggtctcaac aatcttctag acctctcttg 900
aaagatgggtg ctctggagag ccaagatata gagaatgtcc cagttacact atcagaggag 960
aacggttctg aaggaaaagt tgggttttcag gcctataaga attacttcag agctgggtgct 1020
cactggattg tcttcatttt ccttattctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

```

Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
      130                     135                     140

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005060"6225960

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<210> 826
<211> 357
<212> PRT
<213> Homo sapiens

<400> 826
Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
      5                                10                                15

Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
      20                                25                                30

Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
      35                                40                                45

Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
      50                                55                                60

Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
      65                                70                                75                                80

Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
      85                                90                                95

His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
      100                                105                                110

Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
      115                                120                                125

Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
      130                                135                                140

Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly

```

145                      150                      155                      160  
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu  
                                  165                                   170                                   175  
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro  
                                  180                                   185                                   190  
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys  
                                  195                                   200                                   205  
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln  
                                  210                                   215                                   220  
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly  
 225                                   230                                   235                                   240  
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile  
                                  245                                   250                                   255  
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro  
                                  260                                   265                                   270  
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser  
                                  275                                   280                                   285  
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala  
                                  290                                   295                                   300  
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu  
 305                                   310                                   315                                   320  
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe  
                                  325                                   330                                   335  
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His  
                                  340                                   345                                   350  
 His His His His His  
                                  355

<210> 827  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 827  
 Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala  
                                  5                                   10                                   15  
 His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp  
                                  20                                   25                                   30

009060"0225950

Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn  
 35 40 45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu  
 50 55 60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met  
 65 70 75 80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His  
 85 90 95

<210> 828

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 828

cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 829

cgctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 830

gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

009060"6225960

<223> PCR primer

<400> 831

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacggggcc ccaggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

cccctcgagt cactatgggc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

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atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacgag tccaacgcgt ggtcgggagc gtcgccggcg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcatc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
ggcacgcgta caggaacgt gacattggcc gagggacccc cggccaatt catgcacggg 420
cccagggtgc tggcacgctg ctccgagtggt gcttgctctg ccttggtctg cacctctgcg 480
ggggtgcgtc tggagggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagttagg ttggtggctg tgccccagc tcctggcgcg cctcgcaga ggtgactggt 720
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagggt gtatgctgcc 840
tttgggggct ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag                                     915

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<210> 835

<211> 304  
 <212> PRT  
 <213> Homo sapiens

<400> 835

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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10          15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20          25          30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35          40          45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50          55          60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65          70          75          80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85          90          95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100         105         110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115         120         125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
      130         135         140

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
      145         150         155         160

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
      165         170         175

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
      180         185         190

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
      195         200         205

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
      210         215         220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly
      225         230         235         240

Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val
      245         250         255

Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His

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009060" 0225960



260

265

270

Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu  
 275 280 285

Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro  
 290 295 300

&lt;210&gt; 836

&lt;211&gt; 24

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 836

cgaagtcacg tggaggccag cctc

24

&lt;210&gt; 837

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 837

cctgaccgaa ttcattaact ggcttgac

29

&lt;210&gt; 838

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(166)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 838

Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg  
 1 5 10 15  
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
 20 25 30  
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser  
 35 40 45  
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly  
 50 55 60  
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val

009050 "6225960



<400> 841  
ctatagaatt cattaccaaa aagctgggct ccagc

35

<210> 842  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 842  
Met Gln His His His His His His Leu Arg Val Pro Glu Pro Arg Pro  
1 5 10 15  
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro  
20 25 30  
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg  
35 40 45  
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu  
50 55 60  
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn  
65 70 75 80  
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr  
85 90 95  
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp  
100 105 110  
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys  
115 120 125  
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile  
130 135 140  
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu  
145 150 155 160  
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys  
165 170 175  
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser  
180 185 190  
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys  
195 200 205  
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr  
210 215 220  
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe  
225 230 235 240  
Trp

<210> 843  
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<212> DNA  
<213> Homo sapiens

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atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180  
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagAAC 240

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gaccagctga gcaccggggcc ccgcgccgcg ccggatgagg ccgagacgct ggcagagacc 300  
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgcctt 360  
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420  
actcaggtga tcgagttgga gaggaagtgc agccatcaga agtacctgtc ggcccctgaa 480  
cggggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atgggtccag 540  
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600  
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660  
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720  
tggtaatga 729

<210> 844  
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ctactaagcg ctggagtgag ggatcag 27

<210> 845  
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<400> 845  
catcgagaat tcactactct ctgactagat gtc 33

<210> 846  
<211> 161  
<212> PRT  
<213> Homo sapiens

<400> 846  
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Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly  
35 40 45  
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys  
50 55 60  
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly  
65 70 75 80  
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val  
85 90 95  
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln

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100 105 110  
 Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro  
 115 120 125  
 Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His  
 130 135 140  
 Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg  
 145 150 155 160  
 Glu

<210> 847  
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 <212> DNA  
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 tgcttttctt ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180  
 tggctcaggt gtccagagggc tgcgctggc ttccctttgg gatcagactg caggaggagg 240  
 gggcggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt 300  
 gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360  
 tccactccat cctccatctg gcctcagtgg gtcattctga tcactgaact gaccataccc 420  
 agccctgccc acggccctcc atggctcccc aatgccttgg agaggggaca tctagtcaga 480  
 gagtagtga 489

<210> 848  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 848  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
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 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
 20 25 30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
 35 40 45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
 50 55 60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65 70 75 80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
 85 90 95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
 100 105 110  
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
 115 120 125  
 Gly Pro Pro Ala  
 130

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<210> 852
<211> 400
<212> PRT
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&lt;213&gt; Homo sapiens

&lt;400&gt; 852

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Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
           20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
           35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
           50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
           65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
           85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
           100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
           115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
           130                     135                     140

Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
           145                     150                     155                     160

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
           165                     170                     175

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
           180                     185                     190

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
           195                     200                     205

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
           210                     215                     220

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
           225                     230                     235                     240

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
           245                     250                     255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
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 <211> 9  
 <212> PRT  
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<400> 857  
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<210> 858  
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<400> 858  
 Ser Ala Cys Asp Val Ser Val Arg Val  
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<210> 859  
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<400> 859  
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<210> 860  
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 <212> PRT  
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Ala Ser Asp

<210> 861  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

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<400> 861

Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr  
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Met Val Leu

<210> 862

<211> 19

<212> PRT

<213> Homo sapiens

<400> 862

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
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Gln Leu Leu

<210> 863

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<212> DNA

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<223> n = A,T,C or G

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ggnathggnc cngtnytngg nytngtntgy gtncnnytny tnggnwsngc nwsngay 57

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<212> DNA

<213> Homo sapiens

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<223> n = A,T,C or G

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gtncncnny tnytnytnga rgtnggngtn gargaraart tyatgacnat ggtnytn 57

<210> 865

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<212> DNA

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<211> 9

<212> PRT

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Val Leu Gln Cys Val Asn Val Ser Val  
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<210> 867

<211> 9

<212> PRT

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Arg Met Pro Thr Val Leu Gln Cys Val  
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<211> 9

<212> PRT

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<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile  
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Met Leu Ile Lys Leu Asp Glu Ser Val  
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<400> 874  
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<210> 877

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<213> Homo sapiens

Val Leu Val His Pro Gln Trp Val Leu

5

Variable	Mean	Std. Dev.	Minimum	Maximum
Age	34.50	10.50	20	55
Gender	1.50	.50	1	2
Marital Status	1.50	.50	1	2
Education	13.50	2.50	10	16
Income	1.50	.50	1	2
Occupation	1.50	.50	1	2
Religion	1.50	.50	1	2
Political Party	1.50	.50	1	2
Health	1.50	.50	1	2
Smoking	1.50	.50	1	2
Alcohol	1.50	.50	1	2
Exercise	1.50	.50	1	2
Stress	1.50	.50	1	2
Depression	1.50	.50	1	2
Loneliness	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Overall Health	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
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Life Satisfaction	1.50	.50	1	2
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Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
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Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
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Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	2
Life Satisfaction	1.50	.50	1	2
Life Expectancy	1.50	.50	1	2
Quality of Life	1.50	.50	1	